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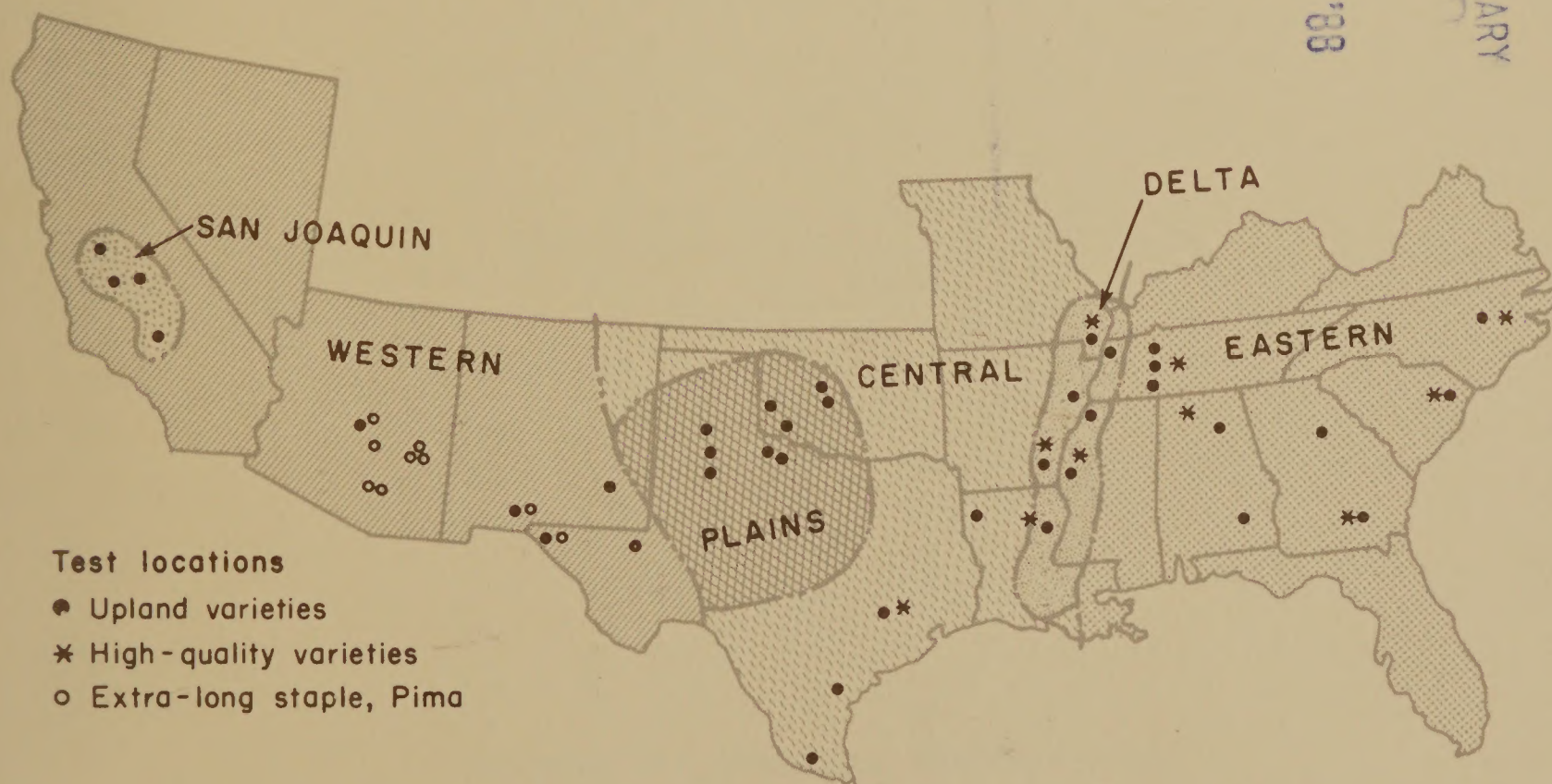
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Regional Cotton Variety Tests, 1976

Yield, Boll, and Spinning Data

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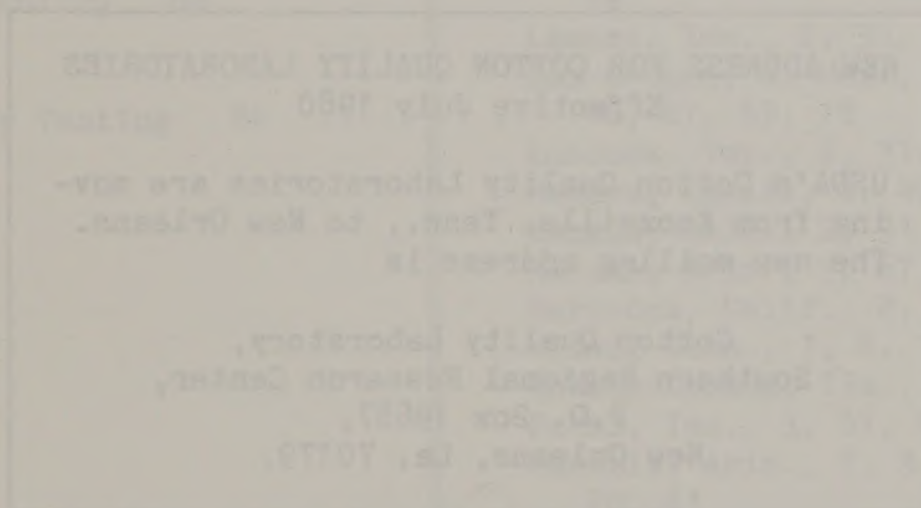


Science and Education Administration
U.S. Department of Agriculture

REGIONAL COTTON VARIETY TESTS, 1976

Yield, Boll, and Spinning Data

Compiled by H. H. Ramey, Jr., research geneticist, and N. J. Acres, statistical assistant, Cotton Quality Laboratories, Science and Education Administration, in cooperation with the agricultural experiment stations of Alabama, Arizona, Arkansas, California, Georgia, Louisiana, Mississippi, Missouri, New Mexico, North Carolina, Oklahoma, South Carolina, Tennessee, and Texas



Science and Education Administration
U.S. Department of Agriculture

The Regional Cotton Variety Test series is available free of charge from USDA's Cotton Quality Laboratory. Limited quantities of the following back issues are available:

<u>Test year</u>	<u>Report</u>
1968	U.S. Agricultural Research Service [Report] ARS 34-113
1969	" " " " " ARS 34-123
1970	" " " " " ARS 34-130
1971	" " " " " ARS-S-33
1972	" " " " " ARS-S-62
1973	U.S. Science and Education Administration, New Orleans, La. (pub. 1979)
1974	Not published
1975	U.S. Science and Education Administration, New Orleans, La. (pub. 1980)
1977	Not published
1978	U.S. Science and Education Administration, New Orleans, La. (pub. 1980)

This report contains yield, boll, and spinning data. Fiber and seed data are not available at this time.

NEW ADDRESS FOR COTTON QUALITY LABORATORIES
Effective July 1980

USDA's Cotton Quality Laboratories are moving from Knoxville, Tenn., to New Orleans. The new mailing address is

Cotton Quality Laboratory,
Southern Regional Research Center,
P.O. Box 19687,
New Orleans, La. 70179.

Regional Cotton Variety Tests, 1976. Yield, Boll, and Spinning Data. Issued July 1980.

Published by Agricultural Research (Southern Region), Science and Education Administration, U.S. Department of Agriculture, P.O. Box 53326, New Orleans, La. 70153.

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INTRODUCTION

The National Cotton Variety Testing Program, developed from recommendations of the Joint Cotton Breeding Policy Committee, is a system for uniform reporting of data from cotton-yield trials across the U.S. Cotton Belt. The trials are conducted annually at selected locations involved in the variety-testing programs of the cooperating State agricultural experiment stations. The National Cotton Variety Testing Committee is responsible for coordinating program plans from year to year.

National standard varieties are chosen for a 3-year cycle of testing. For the sixth 3-year cycle, beginning in 1975, the national standards were Acala 1517-70, Coker 310, Deltapine 16, and Paymaster 909. Within each region, cooperators annually select a group of regional standard varieties that are common to all tests within the region for the particular year. Each station may add entries of local interest, but only data on the national and regional standards are included in this report. All varieties are grown to obtain experimental data, and the designation of national or regional standards is not an endorsement of the varieties by the U.S. Department of Agriculture or the co-

operating State agricultural experiment stations.

Plot size, cultural practices, number of entries, and sampling methods are left to the discretion of the participating stations. While the details are not rigidly standardized, all tests are conducted by experienced personnel using sound experimental designs and procedures. Yield, boll size, lint percentage, and seed index are supplied by the cooperating stations. Fiber samples are sent to the Cotton Quality Laboratories, Science and Education Administration, Knoxville, Tenn., where fiber and yarn tests are made. (Fiber data for 1976 samples are not yet available and do not appear in this report.) All data are assembled in the Cotton Quality Laboratories and are analyzed at the University of Tennessee computer center.

In 1976 the National Cotton Variety Testing Program was organized as shown on the cover map. Upland varieties were grown in all six regions. Strains developed in the Southern States with superior fiber properties and spinning performance were tested in three contiguous regions (high-quality test). Extra-long-staple American Pima varieties were tested in the Western Region.

REGIONAL TESTS AND PARTICIPATING STATIONS

Eastern Regional Cotton Variety Test (Upland Varieties)

Alabama Agricultural Experiment Station
Sand Mountain Substation
Georgia Coastal Plain Experiment Station
Georgia College Experiment Station
Pee Dee Experiment Station
Upper Coastal Plain Experiment Station
West Tennessee Agricultural Experiment Station
Ames Plantation
Milan Field Station

Auburn, Ala.
Crossville, Ala.
Tifton, Ga.
Athens, Ga.
Florence, S.C.
Rocky Mount, N.C.
Jackson, Tenn.
Grand Junction, Tenn.
Milan, Tenn.

Delta Regional Cotton Variety Test (Upland Varieties)

Arkansas Agricultural Experiment Station:
Delta Substation
Southeast Branch Experiment Station

Clarkedale, Ark.
Rohwer, Ark.

Mississippi Agricultural and Forestry Experiment

Station:

Delta Branch	Stoneville, Miss.
Off-station test	Tunica, Miss.
Missouri Agricultural Experiment Station, Delta Center	Portageville, Mo.
Northeast Louisiana Experiment Station	St. Joseph, La.
West Tennessee Agricultural Experiment Station, off-station test	Ridgely, Tenn.

Central Regional Cotton Variety Test (Upland Varieties)

Red River Valley Experiment Station	Bossier City, La.
Texas A&M University:	
Agricultural Research and Extension Center	Weslaco, Tex.
Agricultural Research Station, off-station test	Nueces County, Tex.
Texas Agricultural Experiment Station	College Station, Tex.

Plains Regional Cotton Variety Test (Upland Varieties)

Oklahoma Agricultural Experiment Station:

Cotton Research Station:

Dryland test	Chickasha, Okla.
Irrigated test	Chickasha, Okla.
Irrigation Experiment Station	Altus, Okla.
Sandy Land Research Station	Mangum, Okla.

Texas A&M University:

Agricultural Research and Extension Center

(Chillicothe):

Dryland test	Chillicothe, Tex.
Irrigated test	Chillicothe, Tex.

Agricultural Research and Extension Center

(Lubbock):

Irrigated test	Lubbock, Tex.
Off-station tests	Halfway, Tex.
	Lamesa, Tex.

Western Regional Cotton Variety Test (Upland Varieties)

Arizona Agricultural Experiment Station, Cotton Research Center	Phoenix, Ariz.
New Mexico Agricultural Experiment Station	Las Cruces, N. Mex.
Southeastern Branch Station	Artesia, N. Mex.
Texas A&M University, Agricultural Research Center	El Paso, Tex.

San Joaquin Valley Continuous Cotton Variety Test (Upland Varieties)

California Agricultural Experiment Station:

West Side Field Station	Five Points, Calif.
Off-station tests	Madera, Calif.
	Maricopa, Calif.
	Woodville, Calif.

High-Quality Regional Cotton Variety Test

Alabama Agricultural Experiment Station, Tennessee Valley Substation	Belle Mina, Ala.
Arkansas Agricultural Experiment Station, Southeast Branch	Rohwer, Ark.
Georgia Coastal Plain Experiment Station	Tifton, Ga.
Mississippi Agricultural and Forestry Experiment Station, Delta Branch	Stoneville, Miss.
Missouri Agricultural Experiment Station, Delta Center	Portageville, Mo.
Northeast Louisiana Experiment Station	St. Joseph, La.
Pee Dee Experiment Station	Florence, S.C.
Texas Agricultural Experiment Station	College Station, Tex.
Upper Coastal Plain Experiment Station	Rocky Mount, N.C.
West Tennessee Agricultural Experiment Station	Jackson, Tenn.

Pima Regional Cotton Variety Test

Arizona Agricultural Experiment Station:	
Cotton Research Center	Phoenix, Ariz.
Off-station test	Coolidge, Ariz.
Marana Experimental Farm	Marana, Ariz.
Off-station test, Clark farm	Marana, Ariz.
Safford Branch Station	Safford, Ariz.
Off-station tests:	
Curtis farm	Safford, Ariz.
Pace farm	Safford, Ariz.
New Mexico Agricultural Experiment Station	Las Cruces, N. Mex.
Texas A&M University:	
Agricultural Research Center	El Paso, Tex.
Agricultural Research Station	Pecos, Tex.

Combed-Yarn Test (American Pima Varieties)

American Pima cottons are commonly spun into combed yarns. In addition to the data taken at Knoxville, Tenn., combed yarn tests of Pima cotton grown at three locations conducting the Pima Regional Cotton Variety Test were made by the Agricultural Marketing Service, U.S. Department of Agriculture, at its Clemson, S.C., laboratory. Classer's grade and staple, yarn tenacity of 11.8- and 7.4-tex (50's and 80's cotton count) yarns, appearance index, imperfections per 50 metres, and waste percentages are reported.

TEST RESULTS

No interpretation of the test results other than the indication of the significant differences among means based on an analysis of variance is presented. Means followed by the same letter or letters cannot be considered significantly different at the 0.05 level of probability, as determined by Duncan's multiple-range test. A randomized-block design was used for all analyses, although some tests were planted in lattice designs.

The yield reported for each variety is the average derived from the number of replications used. From three to eight replications were planted, depending on the station, and six replications were more commonly used. Boll size, lint percentage, seed index, and fiber and yarn data are based on two replications of each variety at all locations.

The tables for each regional test are arranged as follows: In the first two

tables, average data for the entire region are given by cotton variety and location; the entries in these tables are arranged in order of decreasing lint yield. (For some tests, subregional summaries are also included.) Following these tables, average data for each location in the region are given, each table being arranged by variety in decreasing order of lint yield.

The column headings and symbols are defined as follows:

Boll size. The mass, in grams, per boll of seed cotton.

Classer's designation. A description of the quality of cotton in terms of grade and staple according to the official cotton standards of the United States. For grade, classification is based on appearance and is accomplished chiefly through the sense of sight by integration of the three factors of grade--color, leaf, and preparation--in the sample. Classification for staple length involves both sight and touch and is made by pulling out and comparing a typical portion of fiber from a sample with the official staple types.

Colorimeter. These measurements were determined by the Nickerson-Hunter colorimeter (Spinlab model). Hunter's b value is a measure of increasing yellowness of the cotton. R_d is the percentage of the reflectance; the higher the value, the lighter the cotton.

Lint percent. The mass of lint ginned from a sample of seed cotton, expressed as a percentage of the mass of seed cotton.

Lint yield. The mean production of the plots harvested, expressed in pounds of lint per acre.

Micronaire. The fineness of the sample taken from the ginned lint, measured by the Micronaire and expressed in standard (curvilinear scale) micronaire units.

Seed index. The mass of 100 seeds, in grams.

Span length. Fiber length measured on the Digital Fibrograph. The distance spanned by a specified percentage of the fibers in the test specimen, where the initial starting point of the scanning in the test is considered 100 percent. The 2.5-percent span length is the length, in inches, on the test specimen spanned by 2.5 percent of the fibers scanned at the initial starting point. The 2.5-percent span length approximates classer's staple. The 50-percent span length is the length, in inches, on the test specimen spanned by 50 percent of the fibers scanned at the initial starting point.

Tex. The linear density of fibers, filaments, and yarns, expressed as the mass, in milligrams, of 1 metre of fiber or yarn.

Waste. The difference in mass, expressed as a percentage, of the fed stock and delivered stock. Picker and card waste is the loss in mass during opening, picking, and carding. Comber waste is the loss in mass during combing.

Yarn appearance index. The relative evenness, smoothness, and freedom from foreign material of the yarn as evaluated by a visual comparison of the yarn with the standards adopted by the American Society for Testing and Materials. Higher numbers indicate more even and smooth yarns with less foreign material.

Yarn imperfections. The abrupt changes in the silhouette of the yarn while passing through a beam of light, expressed as the number of such changes per 50 metres of yarn.

Yarn tenacity. The strength of the yarn, expressed in centinewtons per tex (cN/tex).

EASTERN REGIONAL COTTON VARIETY TEST

Table 1.--Eastern test: Yield, boll, and spinning data by cotton variety

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
McNair 220	697 a	6.15 de	39.3 cde	11.0 def	5.02 cde
Deltapine 16	609 ab	6.14 de	38.0 gh	11.3 cdef	4.98 de
Deltapine 61	608 ab	5.99 e	38.5 fg	11.1 def	5.20 ab
Deltapine 55	603 ab	5.72 fg	40.6 ab	10.4 g	4.85 fg
Pee Dee 9241	601 ab	5.60 g	39.9 bcd	11.5 c	4.83 g
Deltapine 25	583 b	5.65 g	40.1 ab	10.8 f	5.12 abc
McNair 612	581 b	5.96 ef	40.7 a	11.2 cdef	5.18 ab
Coker 304	579 b	5.90 ef	30.0 abc	10.9 f	4.96 ef
Stoneville 603	574 b	5.54 g	38.2 gh	10.9 ef	5.00 de
Coker 310	560 b	5.96 ef	39.2 def	11.3 cde	4.92 efg
Coker 1104	554 b	6.44 bc	39.0 ef	11.5 c	4.94 efg
Stoneville 213	551 b	5.73 fg	38.6 fg	10.9 ef	5.23 a
Dixie King 3	514 bc	6.64 b	38.6 efg	11.5 c	4.83 g
Paymaster 909	412 cd	7.14 a	37.7 h	13.3 a	5.10 bcd
Acala 1517-70	405 d	6.40 cd	36.2 i	12.5 b	4.55 h
<u>Span length (inches)</u>		<u>Colorimeter</u>		<u>Yarn</u>	
2.5% 50%		R_d Hunter's		tenacity	
				b value (cN/tex)	
McNair 220	1.08 h	0.51 ef	73.7 cde	8.4 d	12.6 c
Deltapine 16	1.14 cd	.52 cde	75.0 a	8.8 abcd	11.9 ef
Deltapine 61	1.13 cd	.53 bcd	74.7 a	8.7 abcd	11.9 ef
Deltapine 55	1.12 de	.52 def	73.8 bcd	8.8 abcd	12.1 de
Pee Dee 9241	1.13 cd	.55 a	74.3 abc	8.4 d	13.4 b
Deltapine 25	1.11 ef	.52 def	74.5 ab	8.8 abcd	12.0 ef
McNair 612	1.13 cd	.54 abc	73.8 bcd	8.4 d	12.2 cde
Coker 304	1.16 ab	.53 bcd	73.3 de	8.6 bcd	12.5 bc
Stoneville 603	1.10 fg	.50 fg	73.1 de	8.5 cd	12.1 de
Coker 310	1.17 a	.53 bcd	73.2 e	9.2 a	12.5 c
Coker 1104	1.15 bc	.54 abc	73.6 cde	9.0 ab	12.2 cde
Stoneville 213	1.09 gh	.51 f	73.7 cde	9.0 ab	11.6 f
Dixie King 3	1.08 gh	.51 ef	72.9 e	8.8 abcd	12.0 ef
Paymaster 909 .....	.99 i	.49 g	71.6 f	9.0 ab	11.1 g
Acala 1517-70	1.14 c	.54 ab	73.4 de	9.0 ab	15.1 a

Table 2.--Eastern test: Yield, boll, and spinning data by test location

Location	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Florence, SC	911 a	6.28 b	38.3 c	11.5 c	5.29 a
Athens, GA	792 b	6.76 a	40.2 a	10.5 g	5.23 a
Jackson, TN	656 c	5.99 c	38.4 c	11.2 de	5.05 b
Tifton, GA	637 c	5.74 d	40.1 a	11.4 cd	5.23 a
Auburn, AL	493 d	5.04 e	40.4 a	11.1 def	5.30 a
Rocky Mount, NC ...	477 d	6.76 a	39.3 b	12.4 a	5.06 b
Milan, TN	449 e	5.75 d	38.4 c	10.9 f	4.59 c
Ames Plantation, TN	434 e	6.21 b	39.1 b	10.9 ef	4.53 c
Crossville, AL	209 f	5.98 c	36.6 d	12.1 b	4.55 c
		Span length (inches)		Colorimeter	
		2.5%	50%	R_d	Hunter's b value
Florence, SC	1.14 a	0.54 ab	76.8 a	9.7 a	12.8 a
Athens, GA	1.14 a	.55 a	73.4 c	9.8 a	12.5 ^a bc
Jackson, TN	1.09 d	.49 f	73.1 c	9.5 a	12.9 a
Tifton, GA	1.11 c	.53 cd	72.4 d	9.3 c	12.4 cd
Auburn, AL	1.09 d	.49 f	69.3 e	7.4 d	10.7 f
Rocky Mount, NC ...	1.14 a	.53 bc	74.5 b	8.0 c	12.9 a
Milan, TN	1.12 b	.52 d	76.8 a	8.8 b	12.8 ab
Ames Plantation, TN	1.09 d	.51 e	73.1 c	8.7 b	12.2 de
Crossville, AL	1.12 b	.53 bc	73.3 c	8.7 b	12.0 e

Table 3.--Eastern test: Yield, boll, and spinning data for Florence, S.C.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Pee Dee 9241	1058 a	6.23	39.8	11.5	5.15
McNair 220	1049 a	6.28	38.4	11.1	5.30
Deltapine 61	1010 ab	6.08	39.2	10.2	5.60
Coker 304	1006 ab	6.09	38.6	10.9	5.35
Deltapine 55	993 ab	5.96	40.8	10.5	4.95
McNair 612	987 abc	6.19	39.7	12.7	5.60
Deltapine 25	966 abc	5.87	40.0	11.1	5.40
Stoneville 603	951 abc	5.98	38.1	11.1	5.50
Coker 310	930 bcd	6.19	38.7	11.0	5.15
Stoneville 213	927 bcd	5.97	39.2	11.2	5.60
Coker 1104	920 bcd	6.59	38.5	11.6	5.25
Deltapine 16	879 cd	6.29	37.0	11.1	5.25
Dixie King 3	826 d	6.77	36.3	12.1	5.10
Acala 1517-70	615 e	6.34	35.1	12.3	4.55
Paymaster 909	555 e	7.45	36.1	13.8	5.60

	Span length (inches)		Colorimeter		Yarn tenacity (cN/tex)
	2.5%	50%	R_d	Hunter's b value	
Pee Dee 9241	1.13	0.56	77.2	9.1	13.7
McNair 220	1.11	.55	76.5	10.4	13.2
Deltapine 61	1.15	.56	78.2	8.4	12.4
Coker 304	1.20	.54	76.4	9.5	12.9
Deltapine 55	1.14	.52	77.5	9.6	13.2
McNair 612	1.16	.57	77.3	10.3	12.9
Deltapine 25	1.16	.55	77.8	10.3	12.5
Stoneville 603	1.12	.53	76.7	10.3	12.7
Coker 310	1.19	.55	76.2	9.5	13.0
Stoneville 213	1.12	.53	75.9	9.3	12.2
Coker 1104	1.18	.56	76.2	10.3	12.7
Deltapine 16	1.18	.56	78.5	9.2	12.2
Dixie King 3	1.13	.55	76.9	9.7	12.3
Acala 1517-70	1.17	.56	75.5	10.3	15.4
Paymaster 909	1.00	.51	75.2	9.7	11.3

Table 4.--Eastern test: Yield, boll, and spinning data for Athens, Ga.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
McNair 220	1036 a	7.28	40.4	10.1	5.30
Coker 310	897 ab	6.52	41.4	10.4	5.15
Pee Dee 9241	851 b	5.84	42.5	10.8	5.20
Deltapine 16	826 b	6.84	38.8	11.0	4.95
Deltapine 61	820 b	6.57	37.9	10.7	5.40
Deltapine 25	819 b	6.37	41.4	10.2	5.40
Dixie King 3	809 b	7.48	41.4	10.3	5.25
Deltapine 55	805 b	6.66	42.6	9.6	5.25
McNair 612	782 b	6.39	41.9	9.7	5.40
Coker 1104	757 bc	7.51	40.1	10.6	5.05
Coker 304	745 bc	6.33	40.8	9.6	5.20
Acala 1517-70	728 bc	6.82	37.5	11.8	4.65
Stoneville 603	719 bc	6.18	39.3	10.3	5.30
Stoneville 213	713 bc	6.66	38.5	10.3	5.45
Paymaster 909	580 c	8.00	39.0	12.8	5.60
		Span length (inches)		Colorimeter	
		2.5%	50%	R_d	Hunter's <i>b</i> value
McNair 220	1.13	0.54	75.3	10.4	12.9
Coker 310	1.16	.53	73.0	10.1	12.7
Pee Dee 9241	1.13	.58	74.2	9.8	13.5
Deltapine 16	1.17	.56	75.0	10.3	12.0
Deltapine 61	1.20	.58	74.1	9.6	12.3
Deltapine 25	1.15	.55	74.5	9.7	12.3
Dixie King 3	1.08	.52	72.3	9.9	11.6
Deltapine 55	1.16	.55	72.9	9.4	12.3
McNair 612	1.17	.59	73.8	9.5	12.5
Coker 1104	1.18	.54	72.5	9.9	12.2
Coker 304	1.20	.58	72.8	9.1	13.1
Acala 1517-70	1.16	.58	73.3	9.8	15.0
Stoneville 603	1.13	.53	74.1	9.4	12.3
Stoneville 213	1.13	.55	71.7	9.9	11.9
Paymaster 909	1.02	.52	72.5	10.6	11.2

Table 5.--Eastern test: Yield, boll, and spinning data for Rocky Mount, N.C.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
McNair 220	797 a	6.68	40.0	12.1	5.00
Deltapine 55	598 b	6.55	41.2	11.1	4.90
Pee Dee 9241	569 bc	6.20	39.5	13.0	5.00
Deltapine 25	507 bcd	6.12	41.0	11.4	5.15
Deltapine 16	498 bcd	7.07	37.7	12.5	5.10
Dixie King 3	477 cd	7.73	39.2	12.7	5.00
Coker 310	469 cde	6.76	40.1	12.3	5.05
Stoneville 603	453 cde	6.08	38.5	11.6	5.00
Stoneville 213	451 cde	6.21	39.3	11.8	5.40
Coker 304	441 de	6.57	40.4	11.8	5.10
Deltapine 61	438 de	6.88	38.7	12.0	5.35
McNair 612	412 def	6.31	40.6	12.5	5.45
Coker 1104	383 def	7.11	39.2	12.5	4.90
Acala 1517-70	351 ef	7.34	37.1	14.1	4.60
Paymaster 909	318 f	7.87	37.0	14.6	5.00
		Span length (inches)		Colorimeter	
		2.5%	50%	R_d	Hunter's b value
				Yarn tenacity (cN/tex)	
McNair 220	1.13	0.54	74.7	7.5	13.4
Deltapine 55	1.13	.52	73.6	7.8	12.4
Pee Dee 9241	1.19	.57	75.5	7.9	14.0
Deltapine 25	1.12	.53	76.1	8.2	11.9
Deltapine 16	1.14	.54	76.6	8.1	12.2
Dixie King 3	1.09	.53	74.5	7.8	12.8
Coker 310	1.19	.56	73.4	9.1	13.2
Stoneville 603	1.14	.53	74.2	8.0	12.6
Stoneville 213	1.10	.50	74.9	8.2	11.9
Coker 304	1.17	.52	74.9	8.1	13.3
Deltapine 61	1.16	.55	76.5	8.2	12.0
McNair 612	1.19	.57	74.0	7.9	12.6
Coker 1104	1.14	.54	74.4	7.8	13.7
Acala 1517-70	1.18	.54	73.1	7.9	15.7
Paymaster 909	1.01	.49	70.8	8.1	11.8

Table 6.--Eastern test: Yield, boll, and spinning data for Jackson, Tenn.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
McNair 612	761 a	6.25	39.5	11.7	5.10
McNair 220	742 ab	6.32	39.4	10.5	5.10
Stoneville 213	713 abc	5.57	38.9	10.2	5.50
Stoneville 603	686 abc	5.77	38.8	10.8	5.25
Deltapine 25	682 abc	5.44	41.2	10.4	5.55
Coker 304	678 abcd	5.90	37.6	11.2	4.70
Dixie King 3	669 bcd	6.70	37.2	11.6	4.70
Pee Dee 9241	664 bcd	5.36	39.9	11.1	4.95
Deltapine 61	650 cd	5.92	37.9	11.0	5.20
Deltapine 16	648 cd	6.00	37.4	11.2	5.00
Coker 310	644 cd	5.74	37.3	11.2	4.80
Deltapine 55	628 cd	5.84	39.6	10.1	4.90
Coker 1104	595 de	6.15	38.5	11.5	5.00
Paymaster 909	548 e	6.85	38.2	13.0	5.20
Acala 1517-70	527 e	6.07	34.8	12.3	5.55
		Span length (inches)		Colorimeter	
		2.5%	50%	R_d	Hunter's b value
					Yarn tenacity (cN/tex)
McNair 612	1.13	0.51	72.5	8.0	13.3
McNair 220	1.05	.47	72.6	8.6	12.9
Stoneville 213	1.04	.48	72.8	9.9	11.7
Stoneville 603	1.03	.45	71.3	8.4	11.8
Deltapine 25	1.07	.49	74.6	10.4	11.8
Coker 304	1.17	.52	72.9	9.7	14.0
Dixie King 3	1.04	.48	73.5	8.8	18.2
Pee Dee 9241	1.09	.53	73.7	9.1	13.9
Deltapine 61	1.09	.50	73.1	10.1	13.0
Deltapine 16	1.13	.51	73.0	10.1	12.6
Coker 310	1.15	.49	73.9	10.4	13.2
Deltapine 55	1.14	.52	74.6	9.7	13.2
Coker 1104	1.13	.52	74.7	10.4	12.8
Paymaster 909 .....	.98	.48	70.2	9.8	12.6
Acala 1517-70	1.07	.49	74.6	10.4	11.8

Table 7.--Eastern test: Yield, boll, and spinning data for Tifton, Ga.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Deltapine 61	733 a	6.22	40.5	11.4	5.55
McNair 612	725 a	5.94	41.4	11.3	5.55
Pee Dee 9241	723 a	5.52	39.8	11.8	5.05
McNair 220	707 a	5.62	39.6	11.4	5.10
Deltapine 16	693 ab	6.09	39.7	11.1	5.25
Deltapine 25	687 abc	5.31	42.5	10.6	5.50
Deltapine 55	680 abc	5.66	42.5	11.0	5.15
Stoneville 213	679 abc	5.65	41.8	10.6	5.75
Coker 304	674 abc	6.72	42.0	11.3	5.45
Coker 1104	658 abc	5.89	39.2	11.5	5.20
Dixie King 3	598 bc	5.92	39.2	11.2	5.00
Coker 310	588 bc	5.35	41.3	11.3	5.10
Stoneville 603	584 c	5.12	38.9	11.1	5.30
Acala 1517-70	458 d	5.85	35.8	12.0	4.60
Paymaster 909	370 d	6.38	37.6	13.7	5.00
		Span length (inches)		Colorimeter	
		2.5%	50%	R_d	Hunter's <i>b</i> value
Deltapine 61	1.13	0.55	75.0	8.2	12.2
McNair 612	1.12	.55	72.7	8.1	12.6
Pee Dee 9241	1.15	.56	71.6	7.9	13.5
McNair 220	1.10	.52	73.5	8.2	11.8
Deltapine 16	1.13	.52	75.8	8.0	11.7
Deltapine 25	1.07	.52	72.4	7.8	12.6
Deltapine 55	1.12	.54	72.9	8.1	12.0
Stoneville 213	1.06	.51	72.0	9.5	11.8
Coker 304	1.14	.55	71.4	8.1	12.7
Coker 1104	1.16	.54	72.2	8.4	12.2
Dixie King 3	1.06	.51	72.4	8.0	12.2
Coker 310	1.18	.54	71.5	8.3	13.0
Stoneville 603	1.12	.52	71.7	7.7	12.4
Acala 1517-70	1.14	.55	73.2	8.8	15.4
Paymaster 909 .....	.97	.48	67.7	9.4	10.1

Table 8.--Eastern test: Yield, boll, and spinning data for Milan, Tenn.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Deltapine 16	676 a	5.85	37.9	10.3	4.75
Deltapine 61	609 ab	5.64	37.9	10.4	4.80
Deltapine 55	592 abc	5.42	40.0	9.8	4.45
Deltapine 25	515 bcd	5.31	38.8	10.8	4.90
Stoneville 603	481 cde	5.49	37.1	11.0	4.70
McNair 220	465 de	5.70	39.3	10.6	4.70
Coker 304	453 de	5.49	39.4	10.3	4.35
Coker 310	438 de	5.72	38.3	11.1	4.60
Coker 1104	430 de	6.37	38.3	11.7	4.55
Paymaster 909	415 def	7.18	38.5	13.0	5.00
McNair 612	372 efg	5.36	40.4	9.9	4.25
Pee Dee 9241	362 efg	4.99	39.4	10.4	4.05
Stoneville 213	362 efg	5.41	36.7	11.1	4.95
Acala 1517-70	298 fg	6.32	36.2	12.4	4.40
Dixie King 3	260 g	6.07	38.6	10.9	4.35
		Span length (inches)		Colorimeter	
		2.5%	50%	R_d	Hunter's b value
Deltapine 16	1.15	0.52	78.9	8.7	12.3
Deltapine 61	1.14	.51	78.2	8.6	11.8
Deltapine 55	1.10	.49	78.3	8.7	12.3
Deltapine 25	1.17	.54	78.7	8.4	12.7
Stoneville 603	1.11	.52	76.3	9.6	13.3
McNair 220	1.11	.51	77.2	8.2	13.2
Coker 304	1.18	.54	75.2	8.4	12.3
Coker 310	1.20	.55	75.2	9.5	13.0
Coker 1104	1.17	.55	76.7	8.6	12.6
Paymaster 909 .....	.99	.51	75.0	8.5	11.6
McNair 612	1.10	.51	77.7	8.6	12.7
Pee Dee 9241	1.14	.53	77.9	8.5	13.9
Stoneville 213	1.10	.51	76.3	10.3	12.1
Acala 1517-70	1.14	.54	74.1	8.5	15.1
Dixie King 3	1.11	.51	76.3	8.8	12.5

Table 9.--Eastern test: Yield, boll, and spinning data for Ames Plantation, Tenn.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
McNair 220	579 a	6.37	39.9	10.4	4.50
Deltapine 16	515 ab	6.02	38.9	11.0	4.55
Stoneville 603	500 ab	5.44	37.5	10.4	4.25
Deltapine 55	486 abc	5.36	40.3	9.9	4.35
Deltapine 61	461 bcd	5.79	38.7	10.6	4.75
McNair 612	447 bcde	6.27	41.4	10.6	4.90
Stoneville 213	443 bcde	5.85	37.5	10.5	4.60
Coker 304	436 bcde	6.20	41.1	10.6	4.55
Deltapine 25	429 bcde	5.36	39.4	10.4	4.40
Pee Dee 9241	417 bcde	5.64	40.1	11.3	4.35
Coker 1104	392 cdef	6.85	38.9	11.5	4.70
Paymaster 909	386 cdef	7.68	38.0	12.7	4.60
Dixie King 3	365 def	7.11	38.6	11.5	4.45
Coker 310	343 ef	6.22	39.2	11.1	4.60
Acala 1517-70	304 f	7.08	36.6	12.1	4.45

	Span length (inches)		Colorimeter		Yarn tenacity (cN/tex)
	2.5%	50%	R_d	Hunter's b value	
McNair 220	1.06	0.50	72.5	7.9	12.6
Deltapine 16	1.11	.52	73.8	8.0	12.1
Stoneville 603	1.07	.49	72.7	8.4	11.7
Deltapine 55	1.07	.48	73.5	8.1	12.1
Deltapine 61	1.08	.49	74.2	8.5	11.9
McNair 612	1.10	.51	73.8	7.9	11.7
Stoneville 213	1.07	.49	74.5	8.3	11.5
Coker 304	1.12	.52	72.8	9.3	11.5
Deltapine 25	1.06	.49	74.0	8.0	11.8
Pee Dee 9241	1.13	.53	72.7	8.0	13.5
Coker 1104	1.13	.54	72.4	10.0	12.1
Paymaster 909 .....	.98	.49	72.5	9.3	11.1
Dixie King 3	1.07	.51	72.0	9.2	11.5
Coker 310	1.13	.53	73.2	9.2	12.1
Acala 1517-70	1.16	.56	72.6	10.1	15.5

Table 10.--Eastern test: Yield, boll, and spinning data for Auburn, Ala.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Coker 1104	579 a	5.24	40.4	10.8	5.20
McNair 220	548 ab	5.16	40.1	10.9	5.50
Deltapine 61	544 ab	5.01	39.9	11.5	5.60
Stoneville 213	540 ab	4.95	40.4	10.8	5.50
McNair 612	536 ab	4.77	42.3	10.7	5.50
Deltapine 16	533 ab	5.29	40.4	11.5	5.60
Stoneville 603	531 ab	4.43	39.7	10.5	5.20
Coker 304	509 ab	5.13	42.3	11.1	5.35
Deltapine 55	501 ab	4.80	41.6	10.2	5.40
Pee Dee 9241	490 abc	4.56	40.1	11.6	5.10
Deltapine 25	482 abc	5.10	42.0	10.5	5.50
Coker 310	473 abc	4.99	40.2	11.2	5.35
Dixie King 3	467 bc	5.45	40.1	11.3	5.15
Paymaster 909	397 c	6.03	39.4	12.7	5.15
Acala 1517-70	262 d	4.80	37.3	12.2	4.40
		Span length (inches)		Colorimeter	
		2.5%	50%	R_d	Hunter's b value
				Yarn tenacity (cN/tex)	
Coker 1104	1.11	0.50	69.3	7.7	9.9
McNair 220	1.06	.49	67.9	7.1	11.1
Deltapine 61	1.11	.51	71.0	7.7	10.2
Stoneville 213	1.09	.49	70.3	7.8	10.2
McNair 612	1.10	.51	68.5	7.3	10.5
Deltapine 16	1.12	.50	70.9	7.9	10.1
Stoneville 603	1.09	.49	66.9	7.0	10.3
Coker 304	1.10	.48	68.9	7.2	10.8
Deltapine 55	1.10	.49	68.9	6.9	10.2
Pee Dee 9241	1.11	.52	71.8	7.3	11.7
Deltapine 25	1.08	.49	70.1	7.0	10.9
Coker 310	1.14	.50	68.8	7.4	10.6
Dixie King 3	1.07	.49	67.0	6.7	10.6
Paymaster 909 .....	.97	.46	67.2	7.8	9.8
Acala 1517-70	1.13	.52	72.4	7.8	14.4

Table 11.--Eastern test: Yield, boll, and spinning data for Crossville, Ala.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
McNair 220	353 a	5.98	37.3	12.2	4.70
Coker 1104	275 b	6.25	37.9	12.0	4.65
Pee Dee 9241	271 b	6.06	38.7	12.4	4.65
Coker 304	265 b	5.74	38.0	11.2	4.60
Coker 310	257 b	6.18	36.8	11.9	4.50
Stoneville 603	257 b	5.40	36.1	11.6	4.50
Deltapine 16	216 bc	4.81	34.5	12.3	4.40
Deltapine 61	211 bc	5.84	35.8	12.2	4.55
McNair 612	207 bc	6.16	39.6	11.4	4.90
Deltapine 25	158 cd	6.01	34.9	12.3	4.35
Dixie King 3	154 cd	6.60	37.1	12.0	4.55
Deltapine 55	140 cd	5.35	36.8	11.4	4.35
Paymaster 909	137 cd	6.87	35.5	14.0	4.75
Stoneville 213	133 cd	5.37	35.2	11.7	4.40
Acala 1517-70	102 d	6.13	35.5	13.1	4.50
		Span length (inches)		Colorimeter	
		2.5%	50%	R_d	Hunter's b value
McNair 220	1.09	0.52	73.1	7.6	12.2
Coker 1104	1.14	.55	74.0	7.7	11.9
Pee Dee 9241	1.15	.57	74.2	7.8	12.7
Coker 304	1.15	.54	74.0	7.8	12.1
Coker 310	1.18	.56	73.8	9.1	12.3
Stoneville 603	1.09	.49	73.7	7.8	11.9
Deltapine 16	1.12	.51	73.1	9.3	11.9
Deltapine 61	1.15	.56	72.4	9.2	11.5
McNair 612	1.13	.55	74.2	7.9	11.3
Deltapine 25	1.13	.52	72.4	9.6	11.8
Dixie King 3	1.09	.53	71.1	10.8	11.8
Deltapine 55	1.15	.56	72.3	10.8	11.5
Paymaster 909	1.01	.51	73.7	8.2	10.7
Stoneville 213	1.11	.52	74.9	8.3	11.7
Acala 1517-70	1.13	.55	73.6	8.4	14.7

DELTA REGIONAL COTTON VARIETY TEST

Table 12.--Delta test: Yield, boll, and spinning data by cotton variety

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Stoneville 213	816 a	5.24 e	37.7 cd	10.8 f	4.83 a
Deltapine 55	806 a	5.32 e	39.9 a	10.3 g	4.51 d
Stoneville 256	786 a	5.17 e	37.6 cd	11.0 ef	4.79 ab
Coker 310	785 a	5.69 c	38.5 bc	11.4 de	4.58 cd
Stoneville 731N ...	782 a	5.18 e	39.2 ab	11.1 ef	4.75 ab
Brycot 4	757 a	5.36 de	37.7 cd	11.5 d	4.72 abc
Delcot 277	749 a	5.87 bc	38.0 cd	12.3 c	4.33 e
Deltapine 16	741 a	5.61 cd	37.8 cd	11.2 def	4.68 abc
Acala 1517-70	617 b	6.12 ab	38.2 e	13.2 b	4.62 bcd
Paymaster 909	501 c	6.18 a	37.0 de	13.7 a	4.81 a
		Span length (inches)		Colorimeter	
		2.5%	50%	R_d	Hunter's b value
Stoneville 213	1.11 de	0.51 c	73.5 ab	8.1 bcd	11.8 d
Deltapine 55	1.13 cd	.52 c	73.9 ab	9.0 ab	12.7 bc
Stoneville 256	1.11 e	.50 de	74.3 ab	8.5 abc	12.0 cd
Coker 310	1.18 a	.54 a	73.2 bc	7.7 cd	13.0 b
Stoneville 731N ...	1.11 e	.50 d	74.5 a	7.4 d	11.7 d
Brycot 4	1.10 e	.49 e	73.4 ab	8.8 ab	12.2 bcd
Delcot 277	1.15 b	.53 ab	73.3 bc	9.3 a	12.9 b
Deltapine 16	1.13 c	.52 bc	74.5 a	7.7 cd	12.7 bc
Acala 1517-70	1.14 bc	.54 a	73.2 bc	8.2 bcd	15.3 a
Paymaster 909 .....	.99 f	.49 e	72.2 c	7.9 cd	12.8 bc

Table 13.--Delta test: Yield, boll, and spinning data by test location

Location	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
St. Joseph, LA	1210 a	6.11 a	39.8 a	12.0 c	5.20 a
Portageville, MO ..	932 b	6.26 a	38.2 bc	12.9 a	4.42 d
Rohwer, AR	761 c	5.32 c	38.5 b	---	5.04 b
Stoneville, MS	569 d	5.24 c	37.5 cd	10.4 e	4.54 d
Tunica, MS	491 e	5.18 c	38.7 b	10.7 d	4.84 c
Ridgely, TN	440 f	5.70 b	36.8 de	12.4 b	4.77 c
Clarkedale, AR	---	5.22 c	36.3 e	---	3.84 e
		Span length (inches)		Colorimeter	
		2.5%	50%	R_d	Hunter's b value
St. Joseph, LA	1.15 a	0.53 ab	75.2 b	8.0 c	12.5 a
Portageville, MO ..	1.11 b	.49 c	68.3 e	7.6 c	11.6 b
Rohwer, AR	1.11 b	.53 b	71.0 d	6.5 d	13.0 a
Stoneville, MS	1.09 c	.51 c	72.9 c	8.0 c	12.8 a
Tunica, MS	1.08 c	.50 c	75.3 b	7.6 c	12.8 a
Ridgely, TN	1.14 a	.54 a	76.7 a	8.8 b	13.1 a
Clarkedale, AR	1.11 b	.50 c	75.6 b	11.3 a	13.1 a

Table 14.--Delta test: Yield, boll, and spinning data for St. Joseph, La.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Stoneville 213	1463 a	5.83	40.8	11.3	5.60
Coker 310	1364 ab	6.34	40.4	11.6	5.05
Deltapine 55	1360 ab	6.01	43.1	10.4	5.15
Stoneville 256	1349 ab	5.53	40.2	11.5	5.50
Deltapine 16	1284 ab	6.22	39.5	10.9	5.30
Delcot 277	1268 ab	6.57	39.8	12.4	4.60
Stoneville 731N ...	1264 ab	5.77	40.8	11.9	5.50
Brycot 4	1197 b	5.76	38.5	12.2	5.10
Acala 1517-70	898 c	6.42	37.2	13.7	4.75
Paymaster 909	653 d	6.69	38.3	14.1	5.50
		Span length (inches)		Colorimeter	
		2.5%	50%	R_d	Hunter's b value
Stoneville 213	1.13	0.53	75.4	8.3	11.6
Coker 310	1.24	.56	74.9	8.0	12.8
Deltapine 55	1.15	.53	76.0	7.7	12.6
Stoneville 256	1.14	.51	76.4	7.9	11.6
Deltapine 16	1.20	.55	76.1	7.7	12.1
Delcot 277	1.19	.56	73.9	8.5	11.9
Stoneville 731N ...	1.14	.52	76.0	7.8	11.3
Brycot 4	1.14	.49	76.2	7.7	12.4
Acala 1517-70	1.18	.57	74.8	8.4	16.3
Paymaster 909	1.02	.50	73.0	8.1	12.7

Table 15.--Delta test: Yield, boll, and spinning data for Portageville, Mo.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Brycot 4	1023 a	6.45	36.3	14.0	4.40
Stoneville 731N ...	1015 a	6.20	38.3	12.8	4.55
Stoneville 213	1005 a	6.10	37.1	12.2	4.65
Delcot 277	999 a	6.15	39.7	13.3	4.00
Stoneville 256	972 ab	5.90	38.1	12.6	4.50
Coker 310	962 ab	6.45	39.6	12.1	4.50
Deltapine 55	911 abc	5.95	39.6	12.0	4.30
Acala 1517-70	862 bc	6.75	37.7	14.1	4.30
Paymaster 909	819 cd	6.60	37.9	14.0	4.50
Deltapine 16	753 d	6.10	38.1	12.0	4.50
	<u>Span length (inches)</u>		<u>Colorimeter</u>		<u>Yarn</u>
	2.5%	50%	R_d	Hunter's <i>b</i> value	tenacity (cN/tex)
Brycot 4	1.09	0.44	66.2	7.1	10.5
Stoneville 731N ...	1.11	.49	70.4	7.4	10.6
Stoneville 213	1.11	.50	66.0	7.7	10.7
Delcot 277	1.16	.50	69.2	8.2	12.7
Stoneville 256	1.10	.47	69.3	7.2	11.3
Coker 310	1.18	.52	68.0	7.6	12.2
Deltapine 55	1.12	.49	68.5	7.6	11.4
Acala 1517-70	1.16	.51	68.5	7.9	14.3
Paymaster 909	1.00	.47	67.3	7.6	10.9
Deltapine 16	1.14	.50	69.8	8.2	11.6

Table 16.--Delta test: Yield, boll, and spinning data for Rohwer, Ark.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Deltapine 55	941 a	5.06	40.3	---	4.70
Brycot 4	841 ab	4.89	39.3	---	5.20
Stoneville 256	826 ab	4.92	38.6	---	5.25
Deltapine 16	816 ab	5.21	37.8	---	5.00
Stoneville 213	783 ab	5.17	36.7	---	5.25
Stoneville 731N ...	766 b	5.25	40.3	---	5.20
Delcot 277	763 b	5.08	39.7	---	5.10
Coker 310	754 b	5.39	39.4	---	4.90
Acala 1517-70	670 b	5.91	36.4	---	4.90
Paymaster 909	454 c	6.37	36.9	---	4.95
		Span length (inches)		Colorimeter	
		2.5%	50%	R_d	Hunter's b value
Deltapine 55	1.12	0.53	69.5	6.0	13.2
Brycot 4	1.12	.52	71.1	6.3	13.1
Stoneville 256	1.11	.51	71.3	6.3	12.1
Deltapine 16	1.12	.52	69.9	6.4	12.8
Stoneville 213	1.14	.55	71.7	6.6	12.4
Stoneville 731N ...	1.12	.52	71.7	6.1	12.2
Delcot 277	1.09	.50	72.5	6.5	11.9
Coker 310	1.18	.57	71.4	6.8	13.1
Acala 1517-70	1.14	.55	71.4	7.2	16.2
Paymaster 909	1.00	.50	69.8	6.7	13.5

Table 17.--Delta test: Yield, boll, and spinning data for Stoneville, Miss.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Stoneville 213	634 a	4.81	47.9	9.3	4.70
Deltapine 16	630 a	5.89	36.8	10.9	4.65
Stoneville 256	629 a	4.90	38.3	9.5	4.65
Deltapine 55	629 a	4.80	39.5	9.0	4.40
Stoneville 731N ...	611 a	4.75	38.6	9.9	4.55
Coker 310	567 ab	5.49	36.8	10.7	4.45
Brycot 4	543 b	4.78	38.3	9.4	4.60
Acala 1517-70	521 b	5.47	35.5	11.7	4.60
Delcot 277	517 b	5.76	36.7	11.3	4.15
Paymaster 909	413 c	5.74	36.3	12.3	4.70
		Span length (inches)		Colorimeter	
		2.5%	50%	R_d	Hunter's b value
Stoneville 213	1.08	0.50	73.1	8.2	10.6
Deltapine 16	1.12	.55	74.1	7.8	13.2
Stoneville 256	1.10	.49	73.4	8.0	12.1
Deltapine 55	1.10	.53	72.7	7.7	12.1
Stoneville 731N ...	1.11	.52	72.8	7.7	14.0
Coker 310	1.15	.52	73.0	8.1	14.0
Brycot 4	1.07	.49	72.6	7.6	12.2
Acala 1517-70	1.09	.50	73.4	7.5	12.9
Delcot 277	1.15	.54	72.5	9.4	14.0
Paymaster 909 .....	.94	.46	71.4	8.2	13.1

Table 18.--Delta test: Yield, boll, and spinning data for Ridgely, Tenn.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Coker 310	554 a	5.69	37.1	11.9	4.45
Delcot 277	532 a	6.15	36.0	13.2	4.05
Stoneville 731N ...	532 a	5.36	39.4	11.8	5.10
Brycot 4	529 a	5.67	36.9	12.1	4.95
Stoneville 256	517 a	5.34	33.2	11.9	5.15
Stoneville 213	498 a	5.26	37.8	11.8	5.10
Deltapine 16	485 a	5.56	36.6	12.0	4.95
Deltapine 55	478 a	5.49	39.0	11.3	4.60
Paymaster 909	400 b	6.57	37.1	14.5	4.80
Acala 1517-70	387 b	5.95	34.7	13.5	4.55
		Span length (inches)		Colorimeter	
		2.5%	50%	R_d	Hunter's <i>b</i> value
Coker 310	1.23	0.57	75.0	7.9	13.3
Delcot 277	1.19	.55	75.4	10.3	14.1
Stoneville 731N ...	1.13	.53	77.6	8.1	12.0
Brycot 4	1.13	.52	77.1	8.1	12.9
Stoneville 256	1.13	.52	78.0	8.7	12.3
Stoneville 213	1.14	.54	75.9	9.0	12.8
Deltapine 16	1.13	.53	77.8	8.5	12.8
Deltapine 55	1.17	.55	77.2	8.5	13.6
Paymaster 909	1.03	.53	75.8	9.2	12.5
Acala 1517-70	1.17	.55	77.7	9.7	15.1

Table 19.--Delta test: Yield, boll, and spinning data for Tunica, Miss.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Deltapine 55	519 a	5.05	40.9	9.1	4.95
Stoneville 213	514 ab	4.94	39.0	9.8	4.90
Coker 310	507 ab	5.40	39.8	10.8	4.75
Stoneville 731N ...	503 ab	4.56	40.5	9.1	4.80
Deltapine 16	478 ab	5.15	38.6	10.3	4.55
Stoneville 256	423 abc	4.86	38.7	9.9	4.80
Delcot 277	416 abc	5.44	38.4	11.5	4.45
Brycot 4	407 bc	5.05	37.9	10.0	4.80
Acala 1517-70	366 c	5.76	36.6	13.0	4.95
Paymaster 909	268 d	5.64	36.7	13.8	5.50
		Span length (inches)		Colorimeter	
		2.5%	50%	R_d	Hunter's <i>b</i> value
Deltapine 55	1.09	0.51	75.2	7.6	12.8
Stoneville 213	1.07	.50	76.1	7.9	12.0
Coker 310	1.15	.54	74.8	7.5	13.8
Stoneville 731N ...	1.05	.47	76.5	7.1	9.8
Deltapine 16	1.10	.50	76.3	7.4	13.3
Stoneville 256	1.08	.49	74.9	7.2	12.0
Delcot 277	1.12	.52	75.1	8.1	12.7
Brycot 4	1.09	.49	75.5	7.4	12.2
Acala 1517-70	1.13	.55	75.5	8.4	16.5
Paymaster 909 .....	.97	.49	73.6	7.8	13.6

Table 20.--Delta test: Yield, boll, and spinning data for Clarkedale, Ark.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Acala 1517-70	---	6.58	35.4	---	4.35
Delcot 277	---	5.94	36.1	---	4.00
Paymaster 909	---	5.71	36.1	---	3.75
Deltapine 16	---	5.20	37.6	---	3.85
Coker 310	---	5.12	36.3	---	4.00
Brycot 4	---	4.98	36.9	---	4.05
Deltapine 55	---	4.92	36.9	---	3.50
Stoneville 256	---	4.78	36.4	---	3.70
Stoneville 213	---	4.62	34.8	---	3.65
Stoneville 731N ...	---	4.39	36.9	---	3.60
		Span length (inches)		Colorimeter	
		2.5%	50%	R_d	Hunter's b value
Acala 1517-70	1.15	0.56	70.9	8.4	16.0
Delcot 277	1.16	.53	74.7	14.3	13.4
Paymaster 909 .....	.99	.49	74.9	7.7	13.2
Deltapine 16	1.10	.50	77.8	7.9	13.1
Coker 310	1.14	.52	75.3	8.1	12.3
Brycot 4	1.08	.48	75.3	17.8	12.4
Deltapine 55	1.15	.49	78.3	18.0	13.4
Stoneville 256	1.11	.49	76.8	14.1	12.4
Stoneville 213	1.11	.50	76.3	9.2	12.6
Stoneville 731N ...	1.11	.49	76.5	7.8	12.5

CENTRAL REGIONAL COTTON VARIETY TEST

Table 21.--Central test: Yield, boll, and spinning data by cotton variety

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Stoneville 213	898 a	5.53 d	39.5 a	10.1 e	5.60 a
Deltapine 16	846 ab	5.75 bcd	39.8 a	10.2 e	5.26 c
Stoneville 7A	826 ab	5.59 cd	38.1 a	10.3 d	5.43 b
Coker 310	817 abc	5.89 bcd	39.3 a	10.5 de	5.00 d
Tamcot Sp 37	809 abc	6.00 bc	39.1 a	11.0 cd	4.56 e
Quapaw	741 abc	6.47 a	36.1 c	11.9 b	5.40 b
Acala 1517-70	654 bc	6.05 b	37.0 bc	11.4 bc	4.58 e
Paymaster 909	593 c	6.72 a	37.7 b	12.5 a	5.45 b
Span length (inches)		Colorimeter		Yarn	
2.5%	50%	R_d	Hunter's b value	tenacity (cN/tex)	
Stoneville 213	1.07 b	0.52 ab	71.5 bc	8.8 a	11.7 de
Deltapine 16	1.07 b	.51 bc	74.3 a	8.0 b	12.0 cde
Stoneville 7A	1.08 b	.50 bcd	72.4 b	8.0 b	12.4 cd
Coker 310	1.12 a	.54 a	71.2 bc	8.7 a	13.3 b
Tamcot Sp 37	1.06 b	.50 bcd	74.3 a	7.5 b	11.4 e
Quapaw	1.01 c	.50 bcd	72.3 b	8.8 a	12.5 c
Acala 1517-70	1.12 a	.54 a	71.4 bc	8.1 b	15.8 a
Paymaster 909 .....	.96 d	.48 d	70.7 c	8.7 a	11.4 e

Table 22.--Central test: Yield, boll, and spinning data by test location*

Location	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Bossier City, LA ..	900 a	6.09 b	40.7 a	11.1 a	5.48 a
Nueces County, TX .	837 a	5.59 c	38.2 b	10.5 ab	4.86 c
College Station, TX	725 b	6.62 a	37.1 c	10.9 ab	5.14 b
Weslaco, TX	629 c	5.70 c	37.8 b	11.3 a	---
	Span length (inches)		Colorimeter		Yarn
	2.5%	50%	R_d	Hunter's b value	tenacity (cN/tex)
Bossier City, LA ..	1.04 c	0.50 b	74.9 a	8.7 a	12.6 a
Nueces County, TX .	1.08 a	.53 a	71.2 b	8.2 b	13.0 a
College Station, TX	1.06 b	.50 b	70.6 b	8.0 b	12.0 b

*No spinning data for Weslaco, Tex.

Table 23.--Central test: Yield, boll, and spinning data for Bossier City, La.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Stoneville 213	1117 a	5.70	42.3	10.5	5.75
Coker 310	1016 ab	5.82	42.5	10.4	5.45
Stoneville 7A	981 ab	5.85	41.5	10.4	5.70
Deltapine 16	959 ab	6.18	42.4	10.1	5.60
Acala 1517-70	927 ab	6.53	37.9	12.1	4.95
Quapaw	814 bc	6.43	37.7	12.0	5.45
Tamcot Sp 37	767 bc	5.71	40.9	10.7	5.00
Paymaster 909	618 c	6.54	40.2	12.8	5.95
		Span length (inches)		Colorimeter	
		2.5%	50%	R_d	Hunter's <i>b</i> value
Stoneville 213	1.07	0.53	74.1	9.0	12.5
Coker 310	1.10	.52	74.0	9.0	13.4
Stoneville 7A	1.07	.48	75.2	8.2	12.2
Deltapine 16	1.05	.51	75.8	8.3	12.0
Acala 1517-70	1.12	.55	75.2	8.4	15.8
Quapaw	1.02	.50	75.4	9.4	12.5
Tamcot Sp 37	1.02	.48	76.0	7.5	11.5
Paymaster 909 .....	.93	.47	73.3	10.0	11.5

Table 24.--Central test: Yield, boll, and spinning data for Nueces County, Tex.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Stoneville 213	935 a	4.98	39.9	9.6	5.35
Deltapine 16	932 a	5.61	40.4	9.7	5.05
Stoneville 7A	901 a	5.34	39.0	10.1	5.10
Tamcot Sp 37	870 a	5.38	38.6	10.0	4.30
Coker 310	842 ab	5.76	39.2	10.1	4.80
Quapaw	811 ab	5.93	35.0	11.7	5.05
Paymaster 909	741 bc	6.35	37.0	12.8	4.95
Acala 1517-70	667 c	5.37	36.8	10.5	4.30
		Span length (inches)		Colorimeter	
		2.5%	50%	R_d	Hunter's <i>b</i> value
Stoneville 213	1.05	0.48	70.3	8.8	10.6
Deltapine 16	1.07	.50	73.6	7.8	11.2
Stoneville 7A	1.07	.50	71.0	7.9	12.0
Tamcot Sp 37	1.04	.48	72.5	7.2	10.9
Coker 310	1.16	.55	70.4	9.2	12.8
Quapaw	1.01	.49	70.3	7.9	12.1
Paymaster 909 .....	.98	.48	68.5	7.9	11.2
Acala 1517-70	1.11	.53	68.6	7.8	15.3

Table 25.--Central test: Yield, boll, and spinning data for College Station, Tex.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Stoneville 213	847 a	6.23	37.6	9.8	5.70
Tamcot Sp 37	832 a	6.75	37.8	11.3	4.40
Coker 310	803 a	6.24	38.3	10.4	4.75
Deltapine 16	765 a	5.63	37.5	9.7	5.15
Stoneville 7A	748 ab	6.03	37.9	10.1	5.50
Quapaw	684 abc	7.62	35.7	12.4	5.70
Paymaster 909	581 bc	7.68	35.8	12.4	5.45
Acala 1517-70	544 c	6.78	36.3	11.4	4.50
		Span length (inches)		Colorimeter	
		2.5%	50%	R_d	Hunter's b value
Stoneville 213	1.10		0.56	70.1	8.6
Tamcot Sp 37	1.13		.54	74.3	7.7
Coker 310	1.12		.55	69.3	8.0
Deltapine 16	1.08		.54	73.5	7.9
Stoneville 7A	1.12		.53	71.0	8.1
Quapaw	1.02		.51	71.4	9.2
Paymaster 909 .....	.99		.51	70.2	8.3
Acala 1517-70	1.12		.53	70.4	8.0

Table 26.--Central test: Yield and boll data for Weslaco, Tex.*

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Tamcot Sp 37	766 a	6.17	39.3	11.8	---
Deltapine 16	727 ab	5.60	39.1	11.4	---
Stoneville 213	691 ab	5.20	38.4	10.4	---
Stoneville 7A	674 ab	5.15	38.2	10.8	---
Quapaw	656 ab	5.91	36.0	11.4	---
Coker 310	607 b	5.75	37.2	11.0	---
Acala 1517-70	479 c	5.53	36.9	11.7	---
Paymaster 909	430 c	6.32	37.7	12.2	---

*No spinning data available.

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Table 27.--Plains test: Yield, boll, and spinning data by cotton variety

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Tamcot Sp 21	467 a	5.29 def	37.0 b	11.1 fg	4.57 h
Tamcot 788	456 a	5.39 def	35.7 cd	11.0 fg	4.19 i
Dunn 119	431 ab	6.22 ab	34.2 fg	13.7 a	4.87 def
Paymaster 18	422 abc	4.94 g	34.0 g	11.2 efg	5.26 b
Deltapine 16	421 abc	4.95 g	37.0 b	11.1 efg	4.92 de
Coker 5110	402 abc	5.42 de	37.1 b	11.0 g	4.68 gh
Acala 1517-70	396 abcd	5.16 efg	34.4 fg	12.7 bc	4.56 h
Paymaster 202	389 abcd	5.88 bc	36.0 bcd	12.1 cd	5.11 bc
Lockett BXL	386 abcd	5.66 cd	35.2 def	11.3 efg	4.72 fgh
Lockett 4789A	381 abcd	5.37 def	35.6 de	11.5 defg	4.75 efg
Paymaster 909	376 abcd	6.29 a	36.7 bc	12.5 bc	5.44 a
Gregg 35W	376 abcd	5.28 defg	35.0 defg	12.6 bc	4.57 h
Coker 310	374 abcd	5.00 fg	38.2 a	11.3 efg	4.95 de
Paymaster 111A	361 bcd	6.35 a	34.6 efg	12.1 cd	5.17 bc
Stripper Cala S ...	353 bcd	5.43 de	33.9 g	11.8 def	4.55 h
Westburn 70	351 bcd	5.82 bc	34.9 defg	11.8 de	4.78 efg
Lankart 611	332 cd	6.38 a	36.6 bc	12.7 bc	4.70 fgh
Lankart LX 571	306 a	6.44 a	35.8 cd	12.9 b	5.00 cd
		Span length (inches)		Colorimeter	
		2.5%	50%	R_d	Hunter's b value
Tamcot Sp 21	1.06 def	0.49 efg	73.7 a	7.8 cde	11.1 de
Tamcot 788	1.05 efg	.48 ghi	71.8 cde	7.9 abcd	11.4 d
Dunn 119	1.09 bc	.51 bc	71.7 cde	7.4 f	11.8 c
Paymaster 18 .....	.96 j	.45 k	71.3 def	8.0 abc	9.1 k
Deltapine 16	1.10 b	.51 cd	73.0 ab	7.7 cdef	10.9 efg
Coker 5110	1.09 bc	.50 def	71.6 cde	7.6 def	11.0 def
Acala 1517-70	1.13 a	.53 ab	70.9 ef	7.6 ef	14.2 a
Paymaster 202 .....	.98 ij	.46 ijk	71.9 cd	8.2 ab	10.7 efgh
Lockett BXL	1.09 bcd	.50 cde	71.4 def	7.8 cde	11.1 def
Lockett 4789A	1.04 fg	.48 efg	71.7 cde	7.8 cde	10.7 fgh
Paymaster 909 .....	.96 j	.48 ghi	70.6 f	8.2 a	10.5 gh
Gregg 35W	1.07 cde	.51 bc	71.6 cde	7.4 f	12.8 b
Coker 310	1.13 a	.53 a	71.3 def	8.0 abc	11.4 d
Paymaster 111A ....	.99 hi	.47 hij	71.1 def	7.6 def	10.5 h
Stripper Cala S ...	1.00 h	.48 ghi	71.4 def	7.9 bcde	11.0 def
Westburn 70	1.05 efg	.48 fgh	72.5 bc	7.8 bcde	10.0 i
Lankart 611 .....	.97 ij	.46 jk	71.7 cde	8.0 abc	9.4 jk
Lankart LX 571	1.03 g	.48 fgh	71.4 def	7.9 abcd	9.8 ij

Table 28.--Plains test: Yield, boll, and spinning data by test location

Location	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Lamesa, TX	697 a	6.11 b	35.1 d	11.3 c	4.88 c
Chickasha (Irr), OK .	644 a	7.66 a	36.2 c	14.1 a	5.11 b
Halfway, TX	529 b	5.95 bc	37.0 b	11.7 b	4.83 cd
Lubbock (Irr), TX ...	452 b	5.25 d	36.0 c	11.5 bc	4.53 e
Altus, OK	333 c	5.80 c	35.1 d	13.8 a	4.74 de
Chillicothe (Irr), TX	317 c	4.52 e	37.0 b	10.6 d	5.05 b
Chillicothe (Dry), TX	255 c	5.10 d	38.4 a	9.9 e	5.13 b
Mangum, OK	155 d	5.88 bc	33.5 e	13.9 a	5.34 a
Chickasha (Dry), OK .	93 d	4.20 f	33.1 e	10.0 e	3.67 f
		Span length (inches)		Colorimeter	
		2.5%	50%	R_d	Hunter's b value
					Yarn tenacity (cN/tex)
Lamesa, TX	1.09 c	0.50 b	79.0 a	8.1 d	10.7 c
Chickasha (Irr), OK .	1.11 b	.54 a	73.3 d	7.3 e	11.5 b
Halfway, TX	1.03 d	.47 c	77.2 c	8.9 b	10.9 c
Lubbock (Irr), TX ...	1.01 e	.47 c	78.1 b	9.1 a	10.9 c
Altus, OK	1.14 a	.55 a	68.1 g	6.4 g	12.6 a
Chillicothe (Irr), TX	.98 f	.45 d	65.2 h	7.4 e	10.4 d
Chillicothe (Dry), TX	.97 f	.45 d	65.4 h	7.1 f	10.5 d
Mangum, OK	1.13 a	.55 a	69.8 e	7.4 e	12.4 a
Chickasha (Dry), OK .	.92 g	.42 e	69.1 f	8.6 c	8.8 e

Table 29.--Plains test: Combined yield, boll, and spinning data for Lubbock (irrigated and dryland), Lamesa, and Halfway, Tex., by cotton variety

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Acala 1517-70	681 a	5.70	35.0	12.3	4.52
Tamcot Sp 21	670 ab	5.62	37.5	11.0	4.43
Gregg 35W	658 abc	5.96	34.0	12.9	4.60
Tamcot 788	650 abc	5.56	37.0	10.3	4.20
Paymaster 909	629 abcd	6.94	36.8	12.8	5.63
Paymaster 18	609 abcde	5.10	35.4	11.0	4.15
Dunn 119	589 abcdef	6.39	35.6	12.9	5.18
Deltapine 16	575 abcdefg	4.92	37.0	10.2	4.68
Coker 5110	569 abcdefg	5.48	37.3	10.4	4.46
Coker 310	557 abcdefg	5.19	37.8	10.3	4.71
Lockett BXL	551 bcdefg	5.68	35.1	11.4	4.70
Paymaster 202	536 cdefg	6.06	35.9	11.5	5.01
Westburn 70	511 defg	5.23	34.8	10.7	4.58
Paymaster 111A	502 defg	6.43	35.2	11.9	5.90
Lockett 4789A	490 efgh	5.43	36.1	11.1	4.66
Lankart 611	464 fgh	6.43	37.1	12.9	4.73
Stripper Cala S ...	458 gh	5.55	34.8	11.1	5.05
Lankart LX 571	368 h	6.25	35.9	12.6	4.88
		Span length (inches)		Colorimeter	
		2.5%	50%	R_d	Hunter's b value
				Yarn tenacity (cN/tex)	
Acala 1517-70	1.14	0.53	78.0	8.8	14.3
Tamcot Sp 21	1.07	.49	78.6	8.3	11.9
Gregg 35W	1.08	.51	78.5	8.3	13.2
Tamcot 788	1.03	.47	77.8	9.2	10.8
Paymaster 909 .....	.96	.47	77.0	9.2	10.6
Paymaster 18	1.03	.46	78.0	9.3	9.4
Dunn 119	1.09	.51	77.5	8.6	11.7
Deltapine 16	1.10	.48	79.4	8.8	10.4
Coker 5110	1.08	.49	78.7	8.3	10.9
Coker 310	1.12	.50	77.9	9.1	11.4
Lockett BXL	1.10	.50	78.1	9.0	11.0
Paymaster 202	1.03	.47	77.2	9.1	10.8
Westburn 70	1.07	.48	80.1	8.0	10.3
Paymaster 111A ....	.92	.45	78.3	8.6	8.9
Lockett 4789A	1.04	.48	78.1	8.4	10.8
Lankart 611 .....	.96	.45	77.6	8.4	9.1
Stripper Cala S ...	.94	.47	77.4	8.6	10.4
Lankart LX 571	1.03	.47	78.2	8.5	9.3

Table 30.--Plains test: Combined yield, boll, and spinning data for Chickasha (irrigated and dryland), Altus, and Mangum, Okla., and Chillicothe, Tex. (irrigated and dryland), by cotton variety

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Tamcot Sp 21	365 a	5.13	36.8	11.1	4.64
Tamcot 788	359 a	5.31	35.1	11.4	4.19
Deltapine 16	344 ab	4.96	37.0	11.5	5.05
Paymaster 18	328 abc	4.87	33.3	11.3	5.81
Lockett 4789A	327 abc	5.34	35.3	11.6	4.80
Coker 5110	319 abcd	5.39	37.0	11.2	4.79
Paymaster 202	316 abcd	5.78	36.0	12.5	5.16
Dunn 119	313 abcd	6.09	33.2	14.3	4.71
Lockett BXL	304 abcde	5.65	35.2	11.3	4.73
Stripper Cala S ...	300 abcde	5.37	33.5	12.1	4.30
Paymaster 111A	291 bcde	6.30	34.3	12.2	4.80
Coker 310	283 bcde	4.90	38.3	11.8	5.04
Lankart LX 571	275 bcde	6.54	35.7	13.1	5.05
Westburn 70	271 cde	6.12	35.0	12.4	4.88
Lankart 611	266 cde	6.35	36.4	12.7	4.69
Acala 1517-70	254 de	4.89	34.1	12.8	4.58
Paymaster 909	250 de	5.97	36.6	12.4	5.35
Gregg 35W	235 e	4.93	35.5	12.5	4.56
		Span length (inches)		Colorimeter	
		2.5%	50%	R_d	Hunter's b value
				Yarn tenacity (cN/tex)	
Tamcot Sp 21	1.06	0.49	71.3	7.5	10.8
Tamcot 788	1.06	.48	68.9	7.3	11.7
Deltapine 16	1.10	.52	69.8	7.1	11.2
Paymaster 18 .....	.92	.45	68.0	7.3	9.0
Lockett 4789A	1.04	.50	68.5	7.5	10.7
Coker 5110	1.09	.50	68.1	7.2	11.1
Paymaster 202 .....	.95	.46	69.3	7.7	10.7
Dunn 119	1.09	.51	68.8	6.8	11.3
Stripper Cala S ...	1.03	.48	68.4	7.5	11.3
Lockett BXL	1.07	.50	68.1	7.3	11.1
Paymaster 111A	1.02	.48	67.5	7.1	11.3
Coker 310	1.13	.54	68.0	7.4	11.4
Lankart LX 571	1.03	.49	68.1	7.6	10.0
Westburn 70	1.05	.48	68.7	7.3	9.9
Lankart 611 .....	.98	.47	68.8	7.8	9.6
Acala 1517-70	1.13	.54	67.4	7.0	14.2
Paymaster 909 .....	.95	.43	67.4	7.8	10.5
Gregg 35W	1.07	.52	68.2	6.9	12.5

Table 31.--Plains test: Yield, boll, and spinning data for Lamesa, Tex.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Tamcot Sp 21	862 a	5.72	37.0	10.2	4.45
Gregg 35W	801 ab	6.08	33.5	12.3	4.70
Paymaster 909	792 abc	7.71	34.8	13.0	5.60
Coker 5110	766 abcd	5.84	36.1	10.1	4.55
Acala 1517-70	745 abcde	6.33	34.3	12.1	4.65
Tamcot 788	734 bcdef	5.66	36.0	9.9	4.35
Lockett BXL	710 bcdef	5.85	34.4	10.7	4.65
Lockett 4789A	710 bcdef	5.85	35.2	11.1	4.85
Paymaster 202	691 bcdef	6.80	35.6	11.5	5.05
Paymaster 18	690 bcdef	5.74	34.5	11.1	4.20
Lankart 611	680 bcdef	6.84	36.3	13.2	5.00
Coker 310	674 bcdef	5.48	36.4	10.2	4.85
Paymaster 111A	667 cdef	6.29	34.4	11.6	6.20
Stripper Cala S ...	658 def	5.89	35.2	10.7	5.10
Deltapine 16	642 def	5.33	35.1	10.2	4.95
Westburn 70	636 ef	5.45	34.3	10.4	4.60
Dunn 119	604 f	6.50	32.4	12.3	5.00
Lankart LX 571	480 g	6.77	34.9	12.7	5.10
		Span length (inches)		Colorimeter	
		2.5%	50%	R_d	Hunter's b value
				Yarn tenacity (cN/tex)	
Tamcot Sp 21	1.12	0.51	80.1	7.8	12.1
Gregg 35W	1.11	.52	79.2	8.2	13.0
Paymaster 909	1.01	.50	78.2	8.3	10.5
Coker 5110	1.11	.51	79.6	8.0	10.8
Acala 1517-70	1.17	.55	79.0	8.5	13.9
Tamcot 788	1.08	.49	78.2	8.3	10.5
Lockett BXL	1.17	.53	79.1	8.0	11.2
Lockett 4789A	1.08	.49	78.5	8.0	10.6
Paymaster 202	1.08	.49	77.4	9.0	10.8
Paymaster 18	1.08	.47	79.8	8.3	9.2
Lankart 611	1.00	.47	77.6	8.2	8.6
Coker 310	1.19	.53	78.8	8.2	11.3
Paymaster 111A ....	.94	.46	78.5	7.9	8.6
Stripper Cala S ...	1.01	.50	79.1	7.9	10.7
Deltapine 16	1.15	.51	80.6	8.2	10.3
Westburn 70	1.12	.51	81.3	7.6	10.2
Dunn 119	1.14	.55	77.8	7.9	12.0
Lankart LX 571	1.08	.50	79.6	8.0	9.3

Table 32.--Plains test: Yield, boll, and spinning data for Chickasha, Okla. (irrigated)

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Stripper Cala S ...	839 a	7.24	33.9	14.5	4.45
Tamcot Sp 21	827 a	7.04	38.7	13.0	4.90
Deltapine 16	768 ab	6.66	39.0	13.0	5.05
Coker 5110	755 abc	7.86	38.3	13.5	5.00
Tamcot 788	705 bcde	6.84	35.4	13.5	4.60
Paymaster 202	669 bcd	6.86	36.1	14.5	5.75
Lockett 4789A	662 bcde	7.20	36.2	13.5	5.15
Lankart LX 571	641 cdef	9.26	35.5	15.0	5.55
Paymaster 111A	636 def	9.06	35.3	14.0	5.05
Paymaster 18	616 def	6.26	34.0	13.0	6.00
Dunn 119	608 def	8.06	34.8	15.0	5.30
Lankart 611	604 def	9.14	36.3	16.0	5.30
Lockett BXL	586 ef	8.08	35.8	12.0	4.90
Westburn 70	573 ef	8.64	35.5	15.5	5.45
Paymaster 909	559 ef	8.28	37.1	15.0	4.95
Acala 1517-70	559 ef	7.04	36.9	15.0	4.90
Coker 310	547 f	6.40	37.8	14.5	5.30
Gregg 35W	431 g	7.06	35.4	15.0	4.55
Span length (inches)		Colorimeter		Yarn	
2.5%	50%	R_d	Hunter's b value	tenacity (cN/tex)	
Stripper Cala S ...	1.13	0.55	72.6	7.3	12.2
Tamcot Sp 21	1.09	.53	75.7	7.5	10.9
Deltapine 16	1.19	.57	75.5	7.3	11.2
Coker 5110	1.18	.58	73.5	7.2	11.7
Tamcot 788	1.16	.56	74.7	7.2	13.0
Paymaster 202	1.01	.51	74.8	7.7	10.3
Lockett 4789A	1.10	.55	72.9	7.1	11.6
Lankart LX 571	1.14	.56	74.0	7.6	10.3
Paymaster 111A	1.07	.52	72.5	6.8	11.8
Paymaster 18 .....	.96	.49	71.8	6.9	9.4
Dunn 119	1.17	.59	71.7	6.9	13.0
Lankart 611	1.06	.52	73.9	8.3	9.6
Lockett BXL	1.12	.55	74.0	7.3	11.6
Westburn 70	1.13	.54	73.8	7.3	10.8
Paymaster 909	1.02	.53	72.9	7.5	11.0
Acala 1517-70	1.16	.56	70.8	7.6	14.2
Coker 310	1.18	.56	72.3	7.6	11.6
Gregg 34W	1.12	.57	73.2	7.3	12.9

Table 33.--Plains test: Yield, boll, and spinning data for Chickasha, Okla. (dryland)

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Deltapine 16	125 a	3.54	34.6	10.0	4.10
Lockett 4789A	119 a	4.18	32.5	10.0	3.70
Paymaster 18	116 a	4.06	33.0	10.5	4.55
Lockett BXL	114 a	4.16	33.2	10.0	3.55
Dunn 119	110 ab	4.32	35.5	10.0	3.45
Paymaster 111A	96 bc	4.82	31.1	10.5	3.65
Tamcot Sp 21	96 bc	4.24	34.4	10.5	4.10
Lankart LX 571	91 bc	4.96	31.1	11.5	3.65
Coker 5110	91 bc	4.20	34.3	9.0	3.70
Tamcot 788	38 cd	3.76	29.6	10.0	3.15
Lankart 611	88 cd	4.96	34.1	11.0	3.50
Coker 310	85 cd	3.40	36.4	10.0	3.80
Paymaster 202	85 cd	4.44	33.7	10.0	3.80
Paymaster 909	84 cd	4.58	31.5	9.5	4.15
Gregg 35W	79 cd	3.70	33.5	9.2	3.25
Westburn 70	77 de	4.36	31.2	10.5	3.75
Stripper Cala S ...	68 de	4.28	32.6	10.5	3.00
Acala 1517-70	57 e	3.56	35.1	9.0	3.30
Span length (inches)		Colorimeter		Yarn	
2.5%	50%	R_d	Hunter's b value	tenacity	(cN/tex)
Deltapine 16 .....	.92	0.42	69.9	8.5	9.0
Lockett 4789A .....	.92	.44	69.6	8.3	9.2
Paymaster 18 .....	.86	.41	69.1	8.2	7.3
Lockett BXL .....	.94	.43	68.3	9.2	9.0
Dunn 119 .....	.96	.42	70.2	8.2	8.9
Paymaster 111A ....	.88	.40	68.2	8.2	9.0
Tamcot Sp 21	1.01	.44	70.9	9.0	9.3
Lankart LX 571 ....	.91	.42	68.2	8.5	8.7
Coker 5110 .....	.95	.43	70.0	8.5	9.7
Tamcot 788 .....	.94	.40	69.3	8.3	8.1
Lankart 611 .....	.88	.42	69.1	8.6	7.7
Coker 310 .....	.98	.44	67.9	8.5	9.2
Paymaster 202 .....	.85	.40	69.6	8.7	8.1
Paymaster 909 .....	.83	.39	68.1	8.7	8.2
Gregg 35W .....	.93	.44	69.4	8.1	9.8
Westburn 70 .....	.93	.41	68.5	10.2	8.3
Stripper Cala S ...	.96	.43	69.6	8.7	9.3
Acala 1517-70 .....	.95	.44	68.7	8.6	10.0

Table 34.--Plains test: Yield, boll, and spinning data for Halfway, Tex.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Acala 1517-70	729 a	5.67	35.4	13.0	4.65
Dunn 119	661 ab	6.89	38.1	13.2	5.55
Deltapine 16	658 ab	5.04	38.8	10.5	4.80
Tamcot 788	617 abc	6.05	37.5	10.4	4.25
Tamcot Sp 21	609 abc	5.84	37.9	11.3	4.45
Paymaster 18	596 abcd	5.01	36.5	10.9	4.10
Gregg 35W	582 abcd	6.11	34.6	13.2	4.40
Coker 310	563 abcde	5.19	38.2	10.6	4.65
Lockett BXL	561 abcdef	6.11	36.3	11.8	5.05
Coker 5110	529 bcdefg	5.61	38.2	10.9	4.65
Paymaster 909	506 bcdefg	7.24	37.7	13.6	5.80
Lockett 4789A	470 cdefg	5.48	38.3	11.0	4.60
Paymaster 111A	463 cdefg	7.07	36.2	12.4	5.75
Westburn 70	460 cdefg	5.30	34.9	10.9	4.40
Paymaster 202	410 defg	5.73	36.7	11.4	5.20
Lankart 611	379 efg	6.60	37.6	12.8	4.45
Stripper Cala S ...	376 fg	5.62	35.5	10.9	5.20
Lankart LX 571	351 g	6.65	37.3	13.1	5.05
Span length (inches)		Colorimeter		Yarn	
2.5%	50%	R_d	Hunter's b value	tenacity (cN/tex)	
Acala 1517-70	1.13	0.51	77.2	8.5	13.6
Dunn 119	1.08	.50	76.5	9.6	11.4
Deltapine 16	1.08	.47	77.1	9.0	10.1
Tamcot 788	1.01	.45	77.2	9.2	11.2
Tamcot Sp 21	1.06	.49	77.0	8.7	12.0
Paymaster 18	1.03	.46	76.6	10.0	10.0
Gregg 35W	1.07	.49	78.1	8.1	13.2
Coker 310	1.11	.50	77.6	10.1	11.4
Lockett BXL	1.08	.48	77.3	8.7	10.7
Coker 5110	1.06	.48	77.9	8.4	11.1
Paymaster 909 .....	.95	.47	76.0	9.6	11.1
Lockett 4789A	1.03	.47	78.3	8.6	10.8
Paymaster 111A .....	.91	.45	78.6	8.2	9.2
Westburn 70	1.06	.47	78.3	8.4	10.7
Paymaster 202	1.02	.47	76.9	8.4	10.6
Lankart 611 .....	.95	.44	77.5	8.6	9.8
Stripper Cala S ...	.91	.45	75.3	8.5	10.5
Lankart LX 571	1.03	.47	77.0	9.3	9.5

Table 35.--Plains test: Yield, boll, and spinning data for Lubbock, Tex.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Tamcot 788	599 a	4.98	37.4	10.5	4.00
Gregg 35W	590 a	4.71	34.0	13.2	4.65
Paymaster 909	589 a	5.88	37.0	11.9	5.50
Acala 1517-70	570 ab	5.10	35.4	12.0	4.30
Paymaster 18	541 abc	4.56	35.2	11.0	4.15
Tamcot Sp 21	540 abc	5.32	37.4	11.5	4.40
Paymaster 202	507 bc	5.66	35.3	11.6	4.80
Dunn 119	501 c	5.79	36.4	13.2	5.00
Westburn 70	436 d	4.94	35.2	10.8	4.75
Coker 310	435 d	4.91	38.8	10.2	4.65
Deltapine 16	424 d	4.39	37.1	10.1	4.30
Coker 5110	411 d	5.00	37.6	10.3	4.20
Lockett BXL	381 de	5.09	34.7	11.6	4.40
Paymaster 111A	377 de	5.94	35.1	11.8	5.75
Stripper Cala S ...	341 ef	5.16	33.7	11.7	4.85
Lankart 611	332 efg	5.87	37.4	12.7	4.75
Lockett 4789A	291 fg	4.98	35.0	11.3	4.55
Lankart LX 571	273 g	5.33	35.6	11.9	4.50
		Span length (inches)		Colorimeter	
		2.5%	50%	R_d	Hunter's b value
				Yarn tenacity (cN/tex)	
Tamcot 788	1.00	0.46	77.9	10.2	10.7
Gregg 35W	1.05	.51	78.2	8.6	13.5
Paymaster 909 .....	.93	.45	77.0	9.6	10.3
Acala 1517-70	1.12	.52	77.6	9.3	15.1
Paymaster 18 .....	.99	.44	77.5	9.6	9.1
Tamcot Sp 21	1.03	.47	78.9	8.5	11.7
Paymaster 202	1.00	.47	77.4	10.0	11.0
Dunn 119	1.05	.50	78.2	8.5	11.8
Westburn 70	1.03	.47	80.7	7.9	10.0
Coker 310	1.06	.48	77.4	9.1	11.4
Deltapine 16	1.07	.47	80.5	9.2	10.8
Coker 5110	1.06	.48	78.6	9.6	11.0
Lockett BXL	1.07	.48	78.0	10.2	11.1
Paymaster 111A ....	.90	.44	77.8	9.6	9.0
Stripper Cala S ...	.91	.45	77.7	9.3	10.0
Lankart 611 .....	.93	.43	77.6	8.5	9.0
Lockett 4789A	1.03	.48	77.5	8.5	11.0
Lankart LX 571	1.00	.45	77.9	8.4	9.3

Table 36.--Plains test: Yield, boll, and spinning data for Altus, Okla.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Tamcot 788	540 a	5.76	38.1	13.5	4.40
Deltapine 16	505 a	5.52	36.8	13.5	4.60
Tamcot Sp 21	490 b	5.38	36.8	12.5	4.50
Paymaster 18	407 b	4.90	31.2	12.0	6.25
Lockett 4789A	406 b	5.48	36.8	13.5	4.30
Paymaster 202	399 b	6.56	36.8	15.5	5.50
Dunn 119	363 bc	5.76	28.6	15.5	4.35
Coker 310	321 c	5.38	41.2	14.0	4.90
Acala 1517-70	292 c	5.52	30.0	15.5	4.55
Lankart LX 571	279 c	6.58	34.8	15.0	4.75
Paymaster 909	279 c	6.30	36.4	15.5	5.45
Westburn 70	263 c	6.55	37.5	13.5	4.65
Gregg 35W	260 c	6.06	35.0	13.5	4.70
Lockett BXL	259 c	5.84	35.0	12.0	4.55
Paymaster 111A	254 c	5.98	30.4	13.5	4.45
Coker 5110	251 c	5.60	38.9	12.5	4.55
Stripper Cala S ...	239 c	5.00	33.3	14.0	4.60
Lankart 611	179 d	6.38	35.3	13.5	4.30
Span length (inches)		Colorimeter		Yarn	
2.5%	50%	R_d	Hunter's b value	tenacity (cN/tex)	
Tamcot 788	1.18	0.55	69.8	6.0	14.0
Deltapine 16	1.24	.56	68.8	6.3	12.1
Tamcot Sp 21	1.14	.54	72.8	6.6	12.2
Paymaster 18	1.01	.50	67.2	6.6	10.9
Lockett 4789A	1.20	.58	69.1	6.6	11.8
Paymaster 202	1.00	.50	69.5	6.5	13.0
Dunn 119	1.20	.59	66.4	5.6	14.1
Coker 310	1.25	.62	67.7	6.8	12.6
Acala 1517-70	1.26	.60	68.2	6.4	16.1
Lankart LX 571	1.12	.54	67.5	6.6	11.6
Paymaster 909	1.08	.56	67.4	6.6	12.5
Westburn 70	1.16	.54	66.9	6.5	11.3
Gregg 35W	1.15	.57	67.3	5.9	13.8
Lockett BXL	1.18	.57	69.3	6.5	12.3
Paymaster 111A	1.13	.55	67.3	6.3	12.6
Coker 5110	1.22	.58	65.3	6.2	12.1
Stripper Cala S ...	1.08	.53	68.2	6.6	12.8
Lankart 611	1.04	.51	67.6	6.5	11.3

Table 37.--Plains test: Yield, boll, and spinning data for Chillicothe, Tex.
(irrigated)

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Lockett BXL	414 a	4.83	36.8	10.8	5.15
Coker 5110	386 ab	4.22	38.2	10.5	5.00
Tamcot 788	370 abc	4.32	34.8	9.5	4.10
Westburn 70	355 abcd	5.14	36.0	10.3	4.90
Paymaster 18	341 abcd	4.37	34.0	10.9	5.90
Paymaster 111A	338 abcd	5.41	37.2	11.0	5.00
Lockett 4789A	319 abcde	4.51	36.6	10.1	5.00
Coker 310	318 abcde	4.09	38.6	10.1	5.35
Deltapine 16	307 bcde	4.23	38.6	9.9	5.65
Lankart LX 571	304 bcde	5.44	37.9	11.9	5.60
Lankart 611	303 bcde	4.94	37.5	10.7	4.55
Paymaster 202	303 bcde	4.64	37.3	10.1	5.20
Stripper Cala S ...	290 bcde	4.66	34.5	10.3	4.40
Tamcot Sp 21	287 bcde	4.40	38.4	9.4	4.60
Paymaster 909	275 cde	4.98	39.4	10.2	5.80
Acala 1517-70	258 de	4.38	36.3	11.8	4.85
Gregg 35W	229 e	4.53	36.8	12.4	4.90
Dunn 119	---	---	---	---	5.05

	Span length (inches)		Colorimeter		Yarn tenacity (cN/tex)
	2.5%	50%	R_d	Hunter's b value	
Lockett BXL .....	.97	0.44	65.6	7.0	10.9
Coker 5110	1.02	.43	65.3	7.5	10.2
Tamcot 788 .....	.96	.43	64.8	7.5	10.3
Westburn 70	1.03	.47	67.7	8.0	9.0
Paymaster 18 .....	.89	.42	66.1	7.2	8.0
Paymaster 111A ....	.99	.44	65.8	7.4	10.6
Lockett 4789A .....	.94	.43	65.3	7.9	10.2
Coker 310	1.13	.53	63.7	6.8	11.3
Deltapine 16	1.02	.47	64.8	7.3	11.0
Lankart LX 571 ....	.98	.45	63.0	8.0	9.2
Lankart 611 .....	.95	.44	65.1	7.9	9.5
Paymaster 202 .....	.85	.39	67.2	8.0	9.8
Stripper Cala S ...	.95	.43	65.6	7.4	10.2
Tamcot Sp 21 .....	.99	.44	68.8	7.7	10.0
Paymaster 909 .....	.88	.43	61.9	8.2	9.9
Acala 1517-70	1.13	.52	61.6	5.8	15.1
Gregg 35W	1.00	.46	64.1	6.8	13.1
Dunn 119 .....	.99	.45	68.1	7.4	9.9

Table 38.--Plains test: Yield, boll, and spinning data for Chillicothe, Tex. (dryland)

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Lockett BXL	351 a	5.36	38.4	10.5	5.15
Lockett 4789A	313 ab	5.10	37.5	9.9	5.30
Tamcot 788	290 abc	4.86	36.5	8.7	4.00
Tamcot Sp 21	289 abc	4.86	39.5	9.3	4.95
Paymaster 18	287 abc	4.53	35.5	9.6	6.00
Coker 5110	251 bc	5.31	39.2	10.1	5.30
Deltapine 16	244 bc	4.59	39.7	9.5	5.60
Lankart 611	244 bc	5.91	39.2	10.9	5.10
Paymaster 111A	243 bc	5.86	38.3	9.7	5.20
Lankart LX 571	243 bc	5.81	40.9	9.7	5.40
Westburn 70	243 bc	5.23	36.6	9.3	4.55
Stripper Cala S ...	232 bc	5.05	35.8	9.5	4.50
Coker 310	224 c	4.60	40.3	10.0	5.40
Acala 1517-70	224 c	4.71	36.7	12.0	4.90
Paymaster 909	222 c	5.08	41.3	10.1	5.80
Gregg 35W	222 c	4.62	38.9	10.0	5.00
Paymaster 202	214 c	5.30	38.2	10.0	5.15
Dunn 119	---	---	---	---	5.05

	Span length (inches)		Colorimeter		Yarn tenacity (cN/tex)
	2.5%	50%	R_d	Hunter's <i>b</i> value	
Lockett BXL	1.03	0.49	64.3	6.5	11.4
Lockett 4789A .....	.96	.46	64.9	7.6	9.6
Tamcot 788 .....	.96	.43	64.1	7.6	10.3
Tamcot Sp 21 .....	.96	.44	67.3	7.7	9.7
Paymaster 18 .....	.86	.42	65.3	7.9	7.9
Coker 5110	1.00	.44	66.0	6.6	10.7
Deltapine 16	1.04	.50	68.8	6.4	11.8
Lankart 611 .....	.92	.42	66.5	7.7	8.6
Paymaster 111A ....	.96	.45	63.0	7.2	10.9
Lankart LX 571 ....	.93	.44	64.9	7.5	8.9
Westburn 70 .....	.97	.43	65.4	7.1	9.3
Stripper Cala S ...	.96	.44	63.7	7.5	10.5
Coker 310	1.07	.50	66.5	6.8	11.2
Acala 1517-70	1.10	.52	64.0	6.0	14.5
Paymaster 909 .....	.88	.43	65.1	8.1	9.1
Gregg 35W	1.01	.49	65.3	6.5	12.2
Paymaster 202 .....	.92	.44	64.0	7.5	10.3
Dunn 119	1.02	.45	67.8	6.3	11.5

Table 39.--Plains test: Yield, boll, and spinning data for Mangum, Okla.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Paymaster 202	224 a	5.92	34.2	15.0	5.60
Coker 310	202 ab	5.68	36.0	12.5	5.50
Tamcot Sp 21	201 ab	4.86	33.3	12.0	4.80
Paymaster 18	201 ab	5.10	32.6	12.0	6.20
Gregg 35W	186 abc	5.82	33.6	15.0	5.00
Coker 5110	182 abc	5.18	33.1	12.0	5.20
Paymaster 111A	178 abc	6.72	33.8	14.5	5.50
Lankart 611	176 abc	6.82	36.4	14.0	5.40
Dunn 119	172 abcd	6.24	34.1	17.0	5.10
Tamcot 788	160 abcd	6.34	35.3	13.5	4.90
Lockett 4789A	141 abcd	5.60	32.2	13.0	5.35
Acala 1517-70	131 abcd	4.16	30.0	14.0	5.00
Stripper Cala S ...	131 abcd	6.02	31.0	14.0	4.85
Westburn 70	117 bcd	6.84	33.3	15.5	6.00
Deltapine 16	115 bcd	5.16	33.5	13.5	5.30
Lockett BXL	99 cd	5.64	32.4	13.0	5.10
Lankart LX 571	92 cd	7.20	34.3	15.5	5.40
Paymaster 909	80 d	6.60	34.4	14.5	5.95
		Span length (inches)		Colorimeter	
		2.5%	50%	R_d	Hunter's b value
Paymaster 202	1.07	0.54	70.6	7.8	12.6
Coker 310	1.21	.58	69.8	8.0	12.4
Tamcot Sp 21	1.15	.55	72.2	6.9	12.4
Paymaster 18 .....	.96	.48	68.4	7.3	10.7
Gregg 35W	1.21	.59	69.9	7.1	13.5
Coker 5110	1.21	.55	68.3	7.6	12.2
Paymaster 111A	1.12	.54	68.4	7.0	12.9
Tamcot 788	1.19	.54	70.6	7.2	14.4
Lockett 4789A	1.12	.54	69.5	7.7	12.1
Acala 1517-70	1.18	.58	71.1	7.4	15.3
Stripper Cala S ...	1.14	.54	70.9	7.7	13.2
Westburn 70	1.09	.53	69.9	7.8	10.6
Deltapine 16	1.20	.58	71.4	7.1	12.1
Lockett BXL	1.18	.54	67.1	7.3	11.6
Lankart LX 571	1.10	.53	71.0	7.6	11.2
Paymaster 909	1.04	.55	69.1	7.7	12.4

Table 40.--Western test: Yield, boll, and spinning data by cotton variety

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Deltapine 16	1401 a	6.14 cd	39.7 ab	11.1 d	4.91 b
Stoneville 256	1369 ab	5.77 e	40.0 ab	10.8 d	4.61 c
Deltapine 61	1359 ab	5.89 de	40.2 ab	10.7 d	4.97 b
Coker 310	1307 ab	6.16 cd	40.6 a	11.0 d	4.84 bc
Ariz. 6608	1286 ab	6.28 bc	39.6 ab	12.1 c	4.88 bc
Acala 1517-70	1251 abc	6.60 b	37.7 c	12.8 ab	4.85 bc
Acala 1517-75	1221 bc	6.37 bc	39.3 b	12.4 bc	4.72 bc
Paymaster 909	1093 c	7.61 a	40.3 ab	13.1 a	5.35 a
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<u>Span length (inches)</u>		<u>Colorimeter</u>		<u>Yarn</u>	
2.5% 50%		R_d Hunter's		tenacity	
				<i>b</i> value (cN/tex)	
Deltapine 16	1.16 ab	0.55 ab	77.3 a	7.8 cd	12.0 b
Stoneville 256	1.14 b	.54 bc	76.3 a	7.7 cd	11.5 b
Deltapine 61	1.17 ab	.56 ab	77.6 a	8.0 bc	12.0 b
Coker 310	1.18 ab	.55 ab	76.6 a	8.2 abc	11.8 b
Ariz. 6608	1.18 a	.57 a	76.1 a	8.2 abc	13.4 a
Acala 1517-70	1.18 a	.56 ab	77.2 a	8.6 a	13.6 a
Acala 1517-75	1.19 a	.57 a	76.7 a	7.4 d	13.4 a
Paymaster 909	1.04 c	.52 c	76.2 a	8.4 ab	11.3 b

Table 41.--Western test: Yield, boll, and spinning data by test location

Location	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Phoenix, AZ	1826 a	5.82 b	38.1 c	11.2 c	5.38 a
Las Cruces, NM	1338 b	6.65 a	39.6 b	11.4 c	4.46 c
El Paso, TX	1147 c	6.41 a	40.7 a	12.0 b	4.83 b
Artesia, NM	910 d	6.47 a	40.2 ab	12.3 a	5.05 b
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<u>Span length (inches)</u>		<u>Colorimeter</u>		<u>Yarn</u>	
2.5% 50%		R_d Hunter's		tenacity	
				<i>b</i> value (cN/tex)	
Phoenix, AZ	1.13 b	0.53 b	76.2 b	8.3 a	12.0 b
Las Cruces, NM	1.19 a	.57 a	78.9 a	8.6 a	13.0 a
El Paso, TX	1.13 b	.54 b	75.8 b	7.5 b	12.0 b
Artesia, NM	1.17 a	.57 a	75.2 b	7.7 b	12.7 ab

Table 42.--Western test: Combined yield, boll, and spinning data for Las Cruces and Artesia, N. Mex., and El Paso, Tex., by cotton variety

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Acala 1517-75	1221 a	6.37	39.3	12.4	4.72
Deltapine 16	1215 a	6.28	40.2	11.3	4.68
Acala 1517-70	1178 a	6.77	38.7	12.9	4.80
Stoneville 256	1139 a	5.89	40.4	11.1	4.22
Coker 310	1132 a	6.30	41.3	11.1	4.72
Deltapine 61	1080 a	6.12	40.5	11.1	4.80
Ariz. 6608	1048 a	6.37	39.8	12.2	4.66
Paymaster 909	1035 a	7.97	41.1	13.0	5.26
		Span length (inches)		Colorimeter	
		2.5%	50%	R_d	Hunter's b value
Acala 1517-75	1.19	0.57	76.7	7.4	13.4
Deltapine 16	1.18	.57	76.9	7.8	12.4
Acala 1517-70	1.19	.57	77.8	8.6	13.4
Stoneville 256	1.15	.55	76.1	7.6	11.7
Coker 310	1.17	.56	76.9	8.1	11.8
Deltapine 61	1.17	.56	78.4	7.9	11.9
Ariz. 6608	1.19	.58	76.1	8.1	13.8
Paymaster 909	1.05	.53	76.8	8.4	11.4

Table 43.--Western test: Yield, boll, and spinning data for Phoenix, Ariz.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Deltapine 61	2197 a	5.20	39.4	9.6	5.40
Stoneville 256	2059 ab	5.40	38.7	10.0	5.60
Ariz. 6608	1999 b	6.00	39.0	11.9	5.45
Deltapine 16	1959 bc	5.75	38.4	10.3	5.50
Coker 310	1831 c	5.75	38.3	10.7	5.15
Acala 1517-70	1470 d	6.10	34.9	12.5	5.00
Paymaster 909	1266 e	6.55	37.9	13.4	5.60
		Span length (inches)		Colorimeter	
		2.5%	50%	R_d	Hunter's b value
Deltapine 61	1.16	0.57	75.8	8.2	12.4
Stoneville 256	1.14	.53	76.9	8.1	10.9
Ariz. 6608	1.16	.55	76.1	8.4	12.5
Deltapine 16	1.12	.51	78.4	8.0	11.0
Coker 310	1.18	.54	75.9	8.3	11.9
Acala 1517-70	1.17	.55	75.7	8.7	14.3
Paymaster 909	1.02	.51	74.6	8.3	11.0

Table 44.--Western test: Yield, boll, and spinning data for Las Cruces, N. Mex.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Acala 1517-75	1577 a	6.49	39.2	12.2	4.45
Acala 1517-70	1479 ab	6.91	38.2	12.4	4.65
Coker 310	1459 ab	6.60	40.8	10.8	4.70
Deltapine 16	1331 bc	6.51	39.5	11.0	4.70
Stoneville 256	1276 cd	5.72	39.9	10.0	2.80
Paymaster 909	1230 cd	8.18	40.1	12.8	5.35
Deltapine 61	1194 cd	6.13	39.9	10.4	4.60
Ariz. 6608	1155 d	6.64	39.4	11.8	4.45
		Span length (inches)		Colorimeter	
		2.5%	50%	R_d	Hunter's b value
Acala 1517-75	1.22	0.61	79.4	8.0	14.8
Acala 1517-70	1.25	.60	79.3	9.5	15.0
Coker 310	1.25	.59	78.3	8.2	12.9
Deltapine 16	1.20	.57	79.4	8.2	11.7
Stoneville 256	1.18	.56	80.3	8.5	11.9
Paymaster 909	1.08	.55	77.3	8.9	11.7
Deltapine 61	1.20	.56	79.3	8.2	12.1
Ariz. 6608	1.19	.58	77.8	9.4	14.2

Table 45.--Western test: Yield, boll, and spinning data for El Paso, Tex.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Deltapine 16	1424 a	5.98	41.4	11.4	4.50
Stoneville 256	1215 b	5.74	40.6	11.4	5.00
Acala 1517-75	1173 b	6.22	39.2	12.4	5.05
Deltapine 61	1159 b	5.93	42.1	10.9	4.75
Coker 310	1096 bc	6.21	42.3	10.9	4.55
Acala 1517-70	1077 bc	6.82	38.4	13.0	5.05
Paymaster 909	1047 bc	7.97	41.7	13.4	5.10
Ariz. 6608	973 c	6.43	40.4	12.4	4.75
		Span length (inches)		Colorimeter	
		2.5%	50%	R_d	Hunter's b value
Deltapine 16	1.17	0.57	75.2	7.4	13.8
Stoneville 256	1.10	.53	74.3	7.1	11.7
Acala 1517-75	1.14	.53	76.9	7.6	11.2
Deltapine 61	1.12	.54	77.9	7.4	11.8
Coker 310	1.10	.53	75.9	8.1	10.5
Acala 1517-70	1.14	.54	76.3	7.9	11.3
Paymaster 909	1.03	.51	77.0	7.9	11.3
Ariz. 6608	1.20	.58	74.0	6.9	13.2

Table 46.--Western test: Yield, boll, and spinning data for Artesia, N. Mex.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Ariz. 6608	1016 a	6.05	39.7	12.4	4.90
Acala 1517-70	977 ab	6.60	39.4	13.3	4.60
Stoneville 256	926 abc	6.22	40.9	12.0	5.50
Acala 1517-75	914 abc	6.42	39.6	12.5	4.60
Deltapine 16	889 abc	6.35	39.7	11.7	5.00
Deltapine 61	886 abc	6.30	39.6	12.1	5.30
Coker 310	841 bc	6.10	41.0	11.5	5.10
Paymaster 909	827 c	7.75	41.5	13.3	5.40
		Span length (inches)		Colorimeter	
		2.5%	50%	R_d	Hunter's b value
					Yarn tenacity (cN/tex)
Ariz. 6608	1.20	0.59	77.1	7.7	14.4
Acala 1517-70	1.17	.57	77.9	8.2	14.6
Stoneville 256	1.17	.57	71.4	7.0	11.5
Acala 1517-75	1.22	.59	70.9	5.8	14.9
Deltapine 16	1.18	.57	75.4	7.9	11.1
Deltapine 61	1.23	.60	77.6	8.4	11.8
Coker 310	1.19	.58	76.5	8.2	12.1
Paymaster 909	1.02	.53	75.5	8.5	11.3

SAN JOAQUIN VALLEY CONTINUOUS COTTON VARIETY TEST

Table 47.--San Joaquin test: Yield, boll, and spinning data by cotton variety

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Acala SJ-4	1092 a	6.80 ab	38.7 a	11.4 b	4.35 ab
Acala SJ-2	1089 a	6.98 a	38.6 a	11.9 b	4.12 bc
Acala 1517-70	1055 a	6.40 b	37.1 b	11.2 b	3.93 c
Deltapine 16	1051 a	5.80 c	38.8 a	9.7 c	3.96 c
Coker 310	1045 a	5.47 c	39.4 a	9.4 c	4.02 c
Paymaster 909	846 b	7.04 a	39.0 a	13.1 a	4.58 a
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	Span length (inches)		Colorimeter		Yarn
	2.5%	50%	R_d	Hunter's b value	tenacity (cN/tex)
Acala SJ-4	1.12 bc	0.51 a	75.2 b	8.1 b	14.5 ab
Acala SJ-2	1.14 ab	.51 a	75.0 b	8.5 ab	13.4 b
Acala 1517-70	1.14 a	.50 a	75.0 b	8.2 b	14.9 a
Deltapine 16	1.11 c	.46 b	77.1 a	8.2 b	9.5 d
Coker 310	1.15 a	.46 b	75.2 b	8.3 ab	11.2 c
Paymaster 909 .....	.99 d	.46 b	73.8 c	8.7 a	11.1 c

Table 48.--San Joaquin test: Yield, boll, and spinning data by test location

Location	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
West Side Field Station, CA	1467 a	6.30 bc	40.2 a	11.0 b	4.47 b
Maricopa, CA	1110 b	6.55 ab	39.2 a	11.8 a	4.69 a
Woodville, CA	782 c	6.01 c	37.6 b	11.2 ab	3.50 d
Madera, CA	761 c	6.81 a	37.4 b	10.5 b	3.98 c
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	Span length (inches)		Colorimeter		Yarn
	2.5%	50%	R_d	Hunter's b value	tenacity (cN/tex)
West Side Field Station, CA	1.13 a	0.50 a	74.9 c	8.6 a	12.4 a
Maricopa, CA	1.11 b	.49 b	74.5 d	8.5 a	12.5 a
Woodville, CA	1.12 b	.47 c	75.4 b	7.7 b	12.7 a
Madera, CA	1.06 c	.46 d	76.0 a	8.4 a	12.1 a

Table 49.--San Joaquin test: Yield, boll, and spinning data for West Side Field Station, Calif.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Coker 310	1633 a	5.40	42.4	9.7	4.40
Acala SJ-2	1532 b	6.71	40.2	11.7	4.60
Acala 1517-70	1511 b	6.35	38.5	10.3	4.30
Deltapine 16	1480 bc	5.84	40.0	10.1	4.20
Acala SJ-4	1404 c	6.87	40.6	10.5	4.50
Paymaster 909	1240 d	6.64	39.9	13.9	4.85
	Span length (inches)		Colorimeter		Yarn
	2.5%	50%	R_d	Hunter's b value	tenacity (cN/tex)
Coker 310	1.17	0.50	75.8	8.6	12.5
Acala SJ-2	1.16	.53	74.4	8.4	13.8
Acala 1517-70	1.17	.51	74.7	8.5	14.8
Deltapine 16	1.13	.48	76.9	9.2	9.8
Acala SJ-4	1.15	.52	74.1	8.2	13.3
Paymaster 909	1.03	.49	73.7	8.7	10.5

Table 50.--San Joaquin test: Yield, boll, and spinning data for Maricopa, Calif.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Acala SJ-2	1282 a	7.34	39.2	12.2	4.50
Coker 310	1261 a	5.62	40.2	10.2	4.65
Deltapine 16	1236 a	5.70	40.1	10.3	4.90
Acala 1517-70	1100 ab	6.85	36.4	13.3	4.30
Acala SJ-4	958 bc	6.65	38.5	12.9	4.65
Paymaster 909	820 c	7.14	40.7	13.2	5.15
	Span length (inches)		Colorimeter		Yarn
	2.5%	50%	R_d	Hunter's b value	tenacity (cN/tex)
Acala SJ-2	1.14	0.51	74.1	8.8	13.7
Coker 310	1.14	.47	74.5	8.0	10.8
Deltapine 16	1.11	.47	76.8	8.2	9.8
Acala 1517-70	1.18	.52	73.9	8.3	14.8
Acala SJ-4	1.13	.52	74.0	8.3	14.8
Paymaster 909 .....	.99	.46	73.6	9.6	11.1

Table 51.--San Joaquin test: Yield, boll, and spinning data for Woodville, Calif.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Acala SJ-4	1052 a	6.52	38.2	12.1	4.00
Acala 1517-70	851 b	5.62	36.6	12.1	3.30
Deltapine 16	772 c	5.30	37.3	9.1	3.10
Acala SJ-2	743 c	6.27	37.6	12.1	3.40
Paymaster 909	659 d	7.51	37.0	13.4	4.05
Coker 310	617 e	4.83	38.9	8.8	3.20
		Span length (inches)		Colorimeter	
		2.5%	50%	R_d	Hunter's <i>b</i> value
Acala SJ-4	1.14		0.50	76.2	7.8
Acala 1517-70	1.15		.50	75.6	7.8
Deltapine 16	1.13		.44	77.6	7.6
Acala SJ-2	1.17		.51	74.7	7.7
Paymaster 909 .....	.99		.45	73.7	8.1
Coker 310	1.13		.34	74.8	7.5
					Yarn tenacity (cN/tex)

Table 52.--San Joaquin test: Yield, boll, and spinning data for Madera, Calif.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Acala SJ-4	954 a	7.19	37.6	10.1	4.25
Acala SJ-2	799 ab	7.62	37.5	11.8	4.00
Acala 1517-70	758 b	6.77	36.9	10.5	3.85
Deltapine 16	718 b	6.35	37.9	9.6	3.65
Coker 310	671 b	6.05	36.1	9.1	3.85
Paymaster 909	667 b	6.88	38.6	12.1	4.30
		Span length (inches)		Colorimeter	
		2.5%	50%	R_d	Hunter's <i>b</i> value
Acala SJ-4	1.07		0.49	76.6	8.1
Acala SJ-2	1.08		.49	76.7	9.1
Acala 1517-70	1.07		.47	75.7	8.3
Deltapine 16	1.08		.46	77.2	7.8
Coker 310	1.15		.45	75.5	9.1
Paymaster 909 .....	.95		.44	74.0	8.4
					Yarn tenacity (cN/tex)

HIGH-QUALITY REGIONAL COTTON VARIETY TEST

Table 53.--High-quality test: Yield, boll, and spinning data by cotton variety

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
McNair 3035	845 a	6.09 def	38.9 bc	11.0 f	5.03 cd
McNair 3034	775 ab	6.36 bc	40.0 a	11.2 ef	4.76 gh
Deltapine 16	732 abc	6.12 cdef	37.7 efgh	11.2 ef	5.04 bcd
Mo. 69-495	730 abc	6.00 ef	38.9 bc	11.2 ef	4.82 fgh
Mo. 63-277 BR-1 ...	722 bc	6.32 bcd	38.8 bcd	11.8 cd	4.55 i
Vail 7	712 bc	6.00 ef	37.9 defg	11.4 def	5.11 bc
Coker 420-511	710 bc	6.25 bcde	36.3 i	12.1 bc	4.90 ef
Coker 310	708 bc	6.04 ef	38.6 bcde	11.3 ef	4.86 efg
Stoneville 1114 ...	707 bc	6.00 ef	39.4 ab	11.8 cd	5.14 bc
Mo. 63-277K	688 bcd	6.73 a	37.5 fgh	12.5 ab	4.43 j
Coker 420-6912	678 bcde	6.01 ef	36.9 hi	11.5 de	4.76 gh
Mo. 63-277 BR-2 ...	677 bcde	6.43 b	38.4 cdef	11.8 cd	4.75 gh
Stoneville 537	674 bcde	5.95 fg	37.7 efgh	12.8 a	5.16 b
La. 15177S	659 bcde	5.88 fgh	36.9 ghi	11.6 de	5.06 bcd
Bayou 73	651 cde	5.99 f	37.7 efgh	11.3 ef	4.74 gh
PD 2173	645 cde	5.67 hi	39.1 abc	11.0 f	4.84 efgh
PD 2292	628 cde	5.58 i	38.4 cdef	11.5 de	4.96 de
Pee Dee 0113	575 de	5.73 ghi	37.4 gh	11.6 de	4.82 fgh
Acala 1517-70	561 e	6.42 b	36.1 i	12.8 a	4.71 h
PD 2137	559 e	5.14 j	39.1 abc	12.3 b	5.32 a
	Span length (inches)		Colorimeter		Yarn
	2.5%	50%	R_d	Hunter's b value	tenacity (cN/tex)
McNair 3035	1.13 h	0.54 ij	74.2 bcde	7.8 g	12.9 f
McNair 3034	1.17 de	.55 ghi	74.9 a	8.2 cdefg	13.0 f
Deltapine 16	1.16 de	.55 hi	76.2 a	7.9 fg	12.3 g
Mo. 69-495	1.16 efg	.57 cdefg	74.5 bcd	8.4 cde	13.1 f
Mo. 63-277 BR-1 ...	1.20 ab	.58 abc	74.3 bcde	9.6 abc	14.0 cde
Vail 7	1.14 gh	.53 jk	74.8 bc	8.1 defg	12.1 g
Coker 420-511	1.21 a	.58 ab	74.0 cde	8.2 cdefg	14.0 cde
Coker 310	1.19 bc	.55 fghi	73.6 ef	8.2 defg	13.2 f
Stoneville 1114 ...	1.17 de	.57 bcde	73.8 def	8.0 fg	14.1 cd
Mo. 63-277K	1.19 bc	.57 bcde	73.8 def	8.9 ab	13.7 de
Coker 420-6912	1.20 ab	.57 abcd	74.5 bcd	8.1 efg	14.0 cde
Mo. 63-277 BR-2 ...	1.16 def	.57 cdefg	73.9 de	8.3 cdef	13.8 de
Stoneville 537	1.17 de	.57 bcde	75.0 b	7.9 fg	13.1 f
La. 15177S	1.19 bc	.57 cdef	73.7 def	9.0 a	13.6 e
Bayou 73	1.15 fg	.56 efghi	74.3 bcde	8.0 efg	13.3 f
PD 2173	1.18 cd	.56 cdefgh	73.0 fg	8.1 defg	14.7 a
PD 2292	1.17 de	.56 cdefg	73.8 def	8.2 cdefg	14.3 bc
Pee Dee 0113	1.17 de	.57 bcd	74.8 bc	8.0 efg	14.2 bc
Acala 1517-70	1.17 de	.57 cdef	74.2 bcde	8.5 bcd	14.9 a
PD 2137	1.20 b	.59 a	72.7 g	8.2 defg	14.6 ab

Table 54.--High-quality test: Yield, boll, and spinning data by test location

Location	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
St. Joseph, LA	1135 a	6.03 cd	38.9 b	12.4 b	4.88 d
Portageville, MO ..	924 b	6.62 a	36.0 e	12.7 a	4.62 e
Tifton, GA	709 c	5.93 d	38.4 c	11.6 c	4.93 d
Florence, SC	697 c	6.53 a	38.9 b	11.3 d	5.22 a
Jackson, TN	669 d	6.15 bc	37.2 d	11.8 c	4.92 d
College Station, TX	647 de	6.31 b	37.0 d	11.3 d	5.03 c
Stoneville, MS	642 e	5.28 e	36.3 e	10.6 e	5.30 a
Rocky Mount, NC ...	539 f	6.57 a	39.2 b	12.2 b	4.23 f
Belle Mina, AL	493 g	6.26 b	41.5 a	11.3 d	5.12 b
Rohwer, AR	378 h	4.67 f	37.2 d	---	4.65 e
Span length (inches)		Colorimeter		Yarn	
2.5%	50%	R_d	Hunter's b value	tenacity (cN/tex)	
St. Joseph, LA	1.19 bc	0.57 bc	76.6 bc	7.6 f	13.4 cd
Portageville, MO ..	1.20 ab	.55 d	68.8 h	7.3 g	13.5 cd
Tifton, GA	1.19 abc	.57 bc	71.9 f	8.7 c	13.6 c
Florence, SC	1.20 a	.60 a	76.3 c	9.4 a	13.3 de
Jackson, TN	1.17 d	.54 d	75.3 d	9.0 b	13.5 cd
College Station, TX	1.12 e	.55 d	70.7 g	8.0 de	13.1 e
Stoneville, MS	1.18 c	.55 d	77.4 a	8.5 c	15.3 a
Rocky Mount, NC ...	1.19 abc	.57 b	74.2 e	7.7 ef	13.5 cd
Belle Mina, AL	1.12 e	.55 d	74.0 e	7.9 def	12.2 f
Rohwer, AR	1.17 d	.57 c	77.1 ab	8.1 d	14.8 b

Table 55.--High-quality test: Combined yield, boll, and spinning data for St. Joseph, La.; Portageville, Mo.; Jackson, Tenn.; Stoneville, Miss.; College Station, Tex.; and Rohwer, Ark.*

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
McNair 3035	895 a	5.91	37.9	11.2	4.96
McNair 3034	847 ab	5.94	39.1	11.1	4.61
Coker 420-511	795 abc	6.10	35.1	12.2	4.75
Mo. 69-495	794 abc	5.94	38.3	11.3	4.74
Stoneville 1114 ...	785 bc	5.69	38.8	11.8	5.02
Mo. 63-277 BR-1 ...	780 bcd	6.26	37.9	11.9	4.42
Deltapine 16	778 bcd	4.81	36.7	11.4	4.94
Coker 420-6912	746 bcde	5.86	35.8	11.5	4.60
Mo. 63-277 BR-2 ...	739 cde	6.20	37.7	11.8	4.56
Mo. 63-277K	731 cde	6.49	36.7	12.5	4.21
Coker 310	727 cde	5.89	37.2	11.4	4.65
La. 15177S	725 cde	5.68	35.9	11.6	4.93
Stoneville 537	721 cdef	5.72	36.9	12.7	4.99
Vail 7	716 cdef	5.86	36.9	11.7	5.00
Bayou 73	704 cdefg	5.72	37.1	11.1	4.60
Acala 1517-70	679 defgh	6.26	35.9	12.9	4.70
PD 2173	643 efgh	5.44	37.7	11.1	4.75
PD 2292	621 fgh	5.40	37.2	11.7	4.88
Pee Dee 0113	607 gh	5.59	36.3	11.7	4.71
PD 2137	580 h	5.02	37.7	12.5	5.19
	<u>Span length (inches)</u>		<u>Colorimeter</u>		<u>Yarn</u>
	2.5%	50%	R_d	Hunter's b value	tenacity (cN/tex)
McNair 3035	1.13	0.54	74.2	7.9	13.2
McNair 3034	1.17	.54	76.2	8.1	13.2
Coker 420-511	1.22	.58	74.4	8.2	14.4
Mo. 69-495	1.15	.56	75.2	8.3	13.2
Stoneville 1114 ...	1.16	.56	73.7	7.9	14.4
Mo. 63-277 BR-1 ...	1.21	.57	74.4	8.5	14.3
Deltapine 16	1.17	.55	76.1	7.9	12.6
Coker 420-6912	1.20	.57	74.8	8.0	14.2
Mo. 63-277 BR-2 ...	1.15	.55	73.8	8.2	14.2
Mo. 63-277K	1.19	.56	74.0	8.8	14.0
Coker 310	1.19	.55	73.8	7.9	13.5
La. 15177S	1.19	.55	73.9	8.8	13.7
Stoneville 537	1.16	.56	75.0	7.7	13.5
Vail 7	1.14	.52	74.9	7.9	12.3
Bayou 73	1.16	.56	74.0	7.7	13.7
Acala 1517-70	1.17	.55	74.6	8.4	15.4
PD 2173	1.18	.55	74.7	7.9	15.2
PD 2292	1.17	.56	73.7	7.9	14.4
Pee Dee 0113	1.17	.56	75.2	8.0	14.6
PD 2137	1.19	.58	72.6	8.0	14.8

*No seed index data available for Rohwer, Ark.

Table 56.--High-quality test: Combined yield, boll, and spinning data for Tifton, Ga.; Florence, S.C.; Rocky Mount, N.C.; and Belle Mina, Ala.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
McNair 3035	770 a	6.36	40.5	10.8	5.13
Vail 7	708 ab	6.22	39.4	11.1	5.27
McNair 3034	685 abc	6.88	41.1	11.3	5.13
Coker 310	681 abc	6.27	40.5	11.2	5.18
Deltapine 16	663 abc	6.59	39.1	11.1	5.20
PD 2173	647 abcd	6.03	41.2	10.9	4.97
PD 2292	638 bcd	5.85	40.3	11.2	5.07
Mo. 63-277 BR-1 ...	636 bcd	6.42	40.1	11.7	4.75
Mo. 69-495	634 bcd	6.09	39.9	11.1	4.93
Mo. 63-277K	624 bcd	7.08	38.7	12.5	4.75
Stoneville 537	604 bcd	6.29	38.8	13.0	5.42
Stoneville 1114 ...	591 bcd	6.45	40.4	11.8	5.31
Coker 420-511	583 bcd	6.47	37.9	12.0	5.12
Mo. 63-277 BR-2 ...	583 bcd	6.77	39.5	11.7	5.03
Coker 420-6912	577 cd	6.24	38.5	11.6	4.98
Bayou 73	572 cd	6.38	38.6	11.6	4.95
La. 15177S	560 cd	6.18	38.5	11.7	5.26
PD 2137	529 d	5.32	41.2	12.1	5.52
Pee Dee 0113	527 d	5.94	39.0	11.3	4.98
Acala 1517-70	383 e	6.66	36.6	12.5	4.72
Span length (inches)		Colorimeter		Yarn	
2.5%	50%	R_d	Hunter's b value	tenacity (cN/tex)	
McNair 3035	1.13	0.55	74.2	7.7	12.6
Vail 7	1.15	.55	74.7	8.4	11.7
McNair 3034	1.13	.55	74.2	7.7	12.6
Coker 310	1.19	.56	73.3	8.6	12.7
Deltapine 16	1.16	.55	76.2	8.0	11.8
PD 2173	1.18	.57	73.3	8.5	14.0
PD 2292	1.17	.57	74.0	8.6	14.0
Mo. 63-277 BR-1 ...	1.19	.58	74.3	8.8	13.6
Mo. 69-495	1.16	.58	73.4	8.6	12.9
Mo. 63-277K	1.19	.58	73.5	9.1	13.2
Stoneville 537	1.18	.58	75.0	8.2	12.5
Stoneville 1114 ...	1.17	.59	74.0	8.1	13.5
Coker 420-511	1.21	.60	73.4	8.2	13.4
Mo. 63-277 BR-2 ...	1.18	.59	74.0	8.5	13.2
Coker 420-6912	1.20	.59	74.1	8.3	13.7
Bayou 73	1.14	.56	74.8	8.5	12.6
La. 15177S	1.20	.59	73.5	9.2	13.5
PD 2137	1.20	.61	72.9	8.4	14.1
Pee Dee 0113	1.18	.59	74.2	8.1	13.6
Acala 1517-70	1.18	.58	73.6	8.8	14.1

Table 57.--High-quality test: Yield, boll, and spinning data for St. Joseph, La.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
McNair 3035	1477 a	6.53	41.1	11.9	5.10
Deltapine 16	1352 ab	5.53	39.5	11.2	5.05
McNair 3034	1320 abc	6.51	41.0	11.7	4.45
Coker 420-511	1282 abcd	6.50	37.4	12.8	4.85
Stoneville 1114 ...	1242 bcde	5.55	40.5	12.5	5.25
Mo. 69-495	1233 bcde	6.11	40.2	11.8	5.05
Coker 420-6912	1231 bcde	6.11	37.7	12.2	4.75
Mo. 64-277 BR-1 ...	1224 bcde	6.27	40.1	12.2	4.60
Bayou 73	1219 bcde	5.72	38.4	12.1	4.75
La. 15177S	1208 bcde	5.84	36.7	12.4	5.10
Mo. 63-277K	1102 cdef	6.78	38.7	12.5	4.45
Stoneville 537	1060 defg	5.82	39.1	13.5	5.10
Coker 310	1045 efg	6.08	39.0	12.5	4.80
Vail 7	1044 efg	6.17	38.3	12.3	5.15
PD 2173	1042 efg	5.50	36.6	11.7	4.65
Mo. 63-277 BR-2 ...	1018 efg	6.43	39.0	12.6	4.65
PD 2292	963 fg	5.59	39.9	12.2	5.00
Acala 1517-70	907 fg	6.45	37.4	13.8	4.85
PD 2137	890 fg	5.34	40.3	14.1	5.30
Pee Dee 0113	832 g	5.78	38.1	12.7	4.85
		Span length (inches)		Colorimeter	
		2.5%	50%	R_d	Hunter's b value
McNair 3035	1.16	0.55	75.6	7.5	12.8
Deltapine 16	1.18	.54	78.0	7.0	12.1
McNair 3034	1.17	.55	78.7	7.9	12.7
Coker 420-511	1.23	.59	75.5	7.6	13.9
Stoneville 1114 ...	1.18	.58	75.4	7.5	13.9
Mo. 69-495	1.12	.55	77.9	7.8	12.0
Coker 420-6912	1.24	.59	76.6	7.6	13.7
Mo. 63-277 BR-1 ...	1.19	.59	77.2	8.0	13.7
Bayou 73	1.17	.56	75.9	7.6	13.0
La. 15177S	1.22	.56	76.6	8.4	13.2
Mo. 63-277K	1.20	.58	76.7	8.2	13.4
Stoneville 537	1.17	.57	78.4	7.7	13.2
Coker 310	1.23	.59	77.5	7.7	13.4
Vail 7	1.16	.55	77.9	7.6	11.1
PD 2173	1.21	.60	74.0	7.0	15.2
Mo. 63-277 BR-2 ...	1.16	.57	77.6	7.4	13.7
PD 2292	1.17	.55	75.6	7.4	14.2
Acala 1517-70	1.19	.58	77.0	7.9	14.8
PD 2137	1.22	.62	72.9	7.4	14.7
Pee Dee 0113	1.21	.60	78.5	8.0	14.4

Table 58.--High-quality test: Yield, boll, and spinning data for Portageville, Mo.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Mo. 69-495	1198 a	6.15	41.0	11.8	4.20
Mo. 63-277 BR-2 ...	1175 a	7.20	38.5	12.6	4.35
Mo. 63-277 BR-1 ...	1175 a	6.50	38.7	11.9	4.05
Stoneville 1114 ...	1137 a	6.50	38.7	13.0	4.95
McNair 3035	1104 ab	6.55	35.7	11.9	4.80
Mo. 63-277K	990 bc	7.40	37.4	13.6	4.10
McNair 3034	984 bc	6.85	38.5	12.0	4.85
Coker 310	960 c	6.50	36.2	12.3	4.55
Coker 420-511	956 c	6.90	34.6	12.9	4.75
Coker 420-6912	909 cd	6.60	35.2	12.1	4.65
Stoneville 537	905 cd	6.50	34.1	14.9	5.05
Acala 1517-70	904 cd	7.10	35.1	13.8	4.45
La. 15177S	828 de	6.50	34.0	13.3	4.60
Bayou 73	795 def	6.70	35.8	12.2	4.30
Pee Dee 0113	746 ef	6.40	34.1	12.5	4.95
PD 2292	736 efg	6.30	34.5	12.9	4.90
Deltapine 16	683 fg	6.90	34.2	12.7	4.70
PD 2173	621 gh	6.25	35.3	12.0	4.80
PD 2137	542 h	6.05	34.5	13.6	5.00
Vail 7	---	6.66	34.7	12.7	4.55

	Span length (inches)		Colorimeter		Yarn tenacity (cN/tex)
	2.5%	50%	R_d	Hunter's b value	
Mo. 69-495	1.18	0.54	71.1	7.5	13.0
Mo. 63-277 BR-2 ...	1.19	.55	69.9	7.4	13.6
Mo. 63-277 BR-1 ...	1.21	.55	69.9	7.5	13.6
Stoneville 1114 ...	1.19	.55	67.4	7.2	13.6
McNair 3035	1.15	.53	67.5	6.6	13.1
Mo. 63-277K	1.20	.55	69.9	7.7	13.5
McNair 3034	1.16	.53	68.7	7.2	12.3
Coker 310	1.22	.54	68.1	7.0	13.3
Coker 420-511	1.22	.56	70.9	7.7	14.0
Coker 420-6912	1.21	.56	71.4	8.3	13.2
Stoneville 537	1.21	.57	69.0	7.2	13.5
Acala 1517-70	1.20	.56	69.4	7.7	14.8
La. 15177S	1.25	.58	70.2	8.1	13.8
Bayou 73	1.17	.54	67.2	6.7	12.8
Pee Dee 0113	1.21	.57	68.3	7.2	14.3
PD 2292	1.22	.57	67.3	7.4	14.3
Deltapine 16	1.19	.55	70.4	7.7	12.5
PD 2173	1.21	.55	67.3	7.1	15.4
PD 2137	1.24	.57	65.9	7.2	14.5
Vail 7	1.18	.52	68.9	6.9	11.8

Table 59.--High-quality test: Yield, boll, and spinning data for Florence, S.C.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
McNair 3035	855 a	6.50	39.0	11.0	5.20
McNair 3034	802 ab	6.92	41.0	11.1	5.15
Coker 310	764 bc	6.66	39.9	11.0	5.30
Coker 420-511	743 bcd	6.71	37.0	11.9	5.35
PD 2292	735 bcd	6.08	39.6	10.9	5.30
Stoneville 1114 ...	724 cde	6.61	39.6	11.5	5.35
Deltapine 16	708 cdef	6.60	40.1	10.6	5.50
Stoneville 537	706 cdef	6.57	38.3	13.0	5.60
Pee Dee 0113	698 cdefg	6.24	37.6	10.6	5.05
Mo. 64-277K	698 cdefg	7.37	38.0	12.6	4.95
Vail 7	697 cdefg	6.33	39.4	11.2	5.45
PD 2173	689 cdefg	6.39	40.8	10.7	5.10
Coker 420-6912	684 cdefg	6.38	38.1	11.0	5.10
Mo. 63-277 BR-2 ...	674 defg	6.89	39.3	11.5	5.10
PD 2137	671 defg	5.77	41.3	11.2	5.70
Bayou 73	641 efg	6.35	37.6	11.3	5.05
Mo. 63-277 BR-1 ...	637 fg	6.63	39.7	11.5	4.95
Mo. 69-495	636 fg	6.44	38.8	11.0	5.10
La. 15177S	622 gh	6.44	38.9	11.2	5.35
Acala 1517-70	553 h	6.88	34.6	12.4	4.85
	Span length (inches)		Colorimeter		Yarn
	2.5%	50%	R_d	Hunter's b value	tenacity (cN/tex)
McNair 3035	1.13	0.57	77.7	8.8	12.5
McNair 3034	1.20	.60	77.5	9.3	12.8
Coker 310	1.22	.58	75.9	9.3	12.8
Coker 420-511	1.25	.62	74.7	8.4	13.3
PD 2292	1.20	.60	76.3	10.2	14.7
Stoneville 1114 ...	1.19	.62	76.5	9.0	13.1
Deltapine 16	1.16	.57	77.8	8.4	11.5
Stoneville 537	1.21	.63	77.1	9.3	12.6
Pee Dee 0113	1.22	.62	77.6	9.4	13.6
Mo. 63-277K	1.22	.62	75.4	10.7	13.8
Vail 7	1.18	.57	77.6	9.6	12.5
PD 2173	1.22	.61	74.9	9.4	14.2
Coker 420-6912	1.23	.62	76.1	9.3	14.2
Mo. 63-277 BR-2 ...	1.19	.62	76.1	9.1	14.1
PD 2137	1.21	.62	75.1	9.4	15.0
Bayou 73	1.19	.59	76.5	9.0	11.8
Mo. 63-277 BR-1 ...	1.22	.62	76.4	9.6	14.0
Mo. 69-495	1.20	.63	76.1	9.6	12.3
La. 15177S	1.22	.61	74.9	10.0	13.7
Acala 1517-70	1.19	.60	76.1	10.2	14.6

Table 60.--High-quality test: Yield, boll, and spinning data for Jackson, Tenn.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
McNair 3035	844 a	6.12	38.7	10.9	5.20
Vail 7	776 b	6.15	38.1	11.6	5.30
Deltapine 16	756 b	6.32	36.2	12.0	5.10
McNair 3034	734 bc	6.10	39.2	11.0	5.00
Stoneville 1114 ...	720 bcd	6.22	39.6	12.1	5.15
Stoneville 537	706 bcd	6.05	37.1	12.4	4.95
Coker 420-511	705 bcd	6.15	35.3	12.2	4.85
Coker 420-6912	666 cde	6.35	36.1	11.5	4.80
Mo. 69-495	661 cde	6.47	37.7	11.8	5.00
PD 2137	665 cde	5.21	37.2	12.4	5.00
Coker 310	649 cde	5.87	36.9	11.5	4.60
La. 15177S	643 de	5.72	36.5	10.8	5.15
Mo. 63-277 BR-1 ...	643 de	6.47	37.3	12.5	4.90
PD 2292	642 de	5.77	36.3	12.5	5.00
PD 2173	639 de	6.00	39.9	11.0	5.00
Mo. 63-277K	636 def	6.98	36.5	12.4	4.45
Pee Dee 0113	609 efg	6.02	35.1	12.3	4.60
Mo. 63-277 BR-2	603 efg	6.42	38.0	11.5	4.80
Acala 1517-70	555 fg	6.67	35.5	12.8	4.70
Bayou 73	540 g	6.00	37.4	11.0	5.00
Span length (inches)		Colorimeter		Yarn	
2.5%	50%	R_d	Hunter's <i>b</i> value	tenacity (cN/tex)	
McNair 3035	1.11	0.51	76.3	9.3	12.0
Vail 7	1.14	.52	75.2	8.7	11.6
Deltapine 16	1.19	.56	75.9	9.3	12.4
McNair 3034	1.19	.57	76.2	9.7	13.0
Stoneville 1114 ...	1.21	.57	76.0	8.9	14.1
Stoneville 537	1.23	.60	77.6	8.2	14.3
Coker 420-511	1.25	.59	75.8	10.1	14.2
Coker 420-6912	1.19	.53	75.3	8.3	13.7
Mo. 69-495	1.15	.55	76.3	9.2	12.8
PD 2137	1.20	.56	75.7	8.6	14.7
Coker 310	1.16	.49	75.4	8.9	13.3
La. 15177S	1.14	.51	72.1	9.0	12.7
Mo. 63-277 BR-1 ...	1.20	.56	74.7	9.9	13.4
PD 2292	1.22	.57	75.7	8.4	13.4
PD 2173	1.16	.53	72.5	8.2	14.0
Mo. 63-277K	1.17	.54	74.7	9.9	13.9
Pee Dee 0113	1.21	.58	78.9	8.4	15.1
Mo. 63-277 BR-2 ...	1.14	.54	72.9	9.4	12.9
Acala 1517-70	1.12	.50	74.6	9.3	15.8
Bayou 73	1.16	.56	75.1	8.7	12.9

Table 61.--High-quality test: Yield, boll, and spinning data for Tifton, Ga.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Stoneville 537	844 a	6.10	38.1	12.7	5.15
PD 2173	838 a	5.37	41.5	10.4	5.00
Coker 310	825 a	5.85	39.3	11.7	5.10
La. 15177S	778 a	5.74	37.4	11.6	5.25
Deltapine 16	762 a	6.63	37.4	11.2	5.15
Vail 7	754 a	6.09	39.6	11.0	5.30
Coker 420-6912	735 a	6.02	36.7	12.0	4.85
McNair 3034	732 a	6.23	38.9	11.1	4.55
Mo. 63-277 BR-2 ...	727 a	6.62	37.9	11.8	4.85
Stoneville 1114 ...	720 a	6.06	40.1	11.3	5.10
McNair 3035	720 a	6.11	39.5	10.8	5.00
Bayou 73	694 a	5.96	37.9	11.3	4.85
PD 2292	693 a	6.02	40.1	11.2	4.95
Mo. 63-277K	693 a	6.63	36.1	13.1	4.45
Mo. 69-495	682 a	5.87	37.6	11.8	4.75
PD 2137	672 a	4.87	41.3	11.6	5.50
Mo. 63-277 BR-1 ...	663 a	5.72	38.6	12.4	4.74
Pee Dee 0113	648 a	5.52	38.7	11.5	4.90
Coker 420-511	624 a	5.85	35.6	12.1	4.90
Acala 1517-70	384 b	5.50	35.5	11.3	4.30
	Span length (inches)		Colorimeter		Yarn
	2.5%	50%	R_d	Hunter's b value	tenacity (cN/tex)
Stoneville 537	1.18	0.56	73.9	8.2	13.5
PD 2173	1.16	.54	70.7	9.2	14.5
Coker 310	1.20	.56	71.2	9.3	12.9
La. 15177S	1.22	.59	72.2	9.8	14.0
Deltapine 16	1.21	.58	74.1	8.1	12.0
Vail 7	1.17	.57	71.7	9.0	11.8
Coker 420-6912	1.23	.59	72.1	8.4	14.3
McNair 3034	1.21	.56	73.2	8.2	13.7
Mo. 63-277 BR-2 ...	1.21	.60	71.0	8.7	13.3
Stoneville 1114 ...	1.20	.59	71.7	8.0	14.2
McNair 3035	1.17	.55	72.9	7.9	13.4
Bayou 73	1.14	.55	73.5	9.3	12.5
PD 2292	1.17	.56	71.7	9.2	14.8
Mo. 63-277K	1.20	.57	71.2	9.7	13.7
Mo. 69-495	1.18	.56	69.0	9.1	13.3
PD 2137	1.21	.62	71.6	8.7	14.4
Mo. 63-277 BR-1 ...	1.22	.59	70.8	9.4	14.0
Pee Dee 0113	1.16	.58	72.3	8.2	14.3
Coker 420-511	1.23	.60	71.5	8.3	13.8
Acala 1517-70	1.18	.56	71.7	9.4	14.9

Table 62.--High-quality test: Yield, boll, and spinning data for Belle Mina, Ala.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Vail 7	818 a	6.03	40.3	10.7	5.10
McNair 3035	733 ab	6.20	43.0	10.6	5.30
PD 2292	614 bc	5.62	42.3	10.8	5.05
Deltapine 16	604 bcd	6.18	40.3	10.6	5.05
Coker 310	599 bcd	5.97	42.9	10.5	5.25
McNair 3034	552 cde	6.93	43.4	11.1	5.10
Mo. 63-277 BR-1 ...	519 cdef	6.79	41.5	11.4	4.70
Coker 420-511	504 cdef	6.52	41.2	11.5	5.15
PD 2173	501 cdef	6.10	42.3	10.9	5.05
Coker 429-6912	500 cdef	6.06	41.3	11.0	5.05
La. 15177S	488 cdefg	5.90	41.2	11.2	5.25
Mo. 69-495	457 defgh	5.98	42.5	10.8	5.00
Mo. 63-277K	456 defgh	7.08	40.5	12.1	4.70
Bayou 73	419 efghi	6.37	40.3	11.4	4.90
Mo. 63-277 BR-2 ...	409 efghi	6.48	40.7	11.8	5.20
Stoneville 1114 ...	396 fghi	6.39	41.9	11.7	5.50
Stoneville 537	343 ghi	6.05	41.3	12.6	5.50
PD 2137	337 ghi	5.47	43.6	11.9	5.60
Pee Dee 0113	328 hi	5.81	41.3	11.3	5.05
Acala 1517-70	285 i	7.44	38.8	12.9	4.95
Span length (inches)		Colorimeter		Yarn	
2.5%	50%	R_d	Hunter's b value	tenacity (cN/tex)	
Vail 7	1.10	0.53	75.2	7.7	10.5
McNair 3035	1.07	.53	72.5	7.1	11.4
PD 2292	1.11	.54	74.7	7.8	12.9
Deltapine 16	1.13	.53	76.1	7.7	11.7
Coker 310	1.13	.55	72.8	8.0	11.6
McNair 3034	1.11	.55	75.1	7.9	11.3
Mo. 63-277 BR-1 ...	1.16	.57	74.1	8.2	12.2
Coker 420-511	1.13	.56	73.4	8.2	12.4
PD 2173	1.11	.55	73.5	7.9	12.4
Coker 420-6912	1.15	.56	73.4	7.8	13.0
La. 15177S	1.14	.56	74.0	8.6	12.4
Mo. 69-495	1.11	.54	73.9	7.8	12.7
Mo. 63-277K	1.14	.55	73.6	8.6	12.2
Bayou 73	1.09	.54	74.9	8.1	12.1
Mo. 63-277 BR-2 ...	1.12	.56	74.6	8.1	11.9
Stoneville 1114 ...	1.14	.58	73.8	6.8	13.0
Stoneville 537	1.12	.54	74.9	7.9	11.8
PD 2137	1.17	.60	73.3	7.8	13.6
Pee Dee 0113	1.12	.55	73.4	7.7	12.7
Acala 1517-70	1.13	.56	73.7	8.0	13.4

Table 63.--High-quality test: Yield, boll, and spinning data for Stoneville, Miss.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
McNair 3034	803 a	5.57	38.6	9.9	4.20
Deltapine 16	782 ab	5.31	36.6	10.4	4.40
McNair 3035	779 ab	5.42	36.9	10.5	4.40
Vail 7	692 abc	5.18	47.0	10.2	4.80
Acala 1517-70	687 abc	5.88	35.0	12.1	4.25
Coker 420-511	675 abc	5.63	33.5	11.5	4.20
Coker 310	672 abcd	5.20	37.3	10.0	4.10
Bayou 73	659 bcd	4.81	36.0	9.5	3.95
La. 15177S	646 bcd	4.95	34.9	10.6	4.45
Mo. 69-495	642 bcd	5.81	36.8	10.4	4.20
Coker 420-6912	632 cd	5.17	33.6	10.6	4.00
Mo. 63-277K	627 cd	6.27	34.6	11.8	3.90
Stoneville 537	625 cd	4.76	37.6	10.5	4.05
Stoneville 1114 ...	598 cd	5.05	38.4	10.3	4.35
PD 2173	581 cd	4.79	37.1	9.7	4.20
Mo. 63-277 BR-2 ...	566 cd	5.79	35.5	10.9	4.05
Mo. 63-277 BR-1 ...	558 cd	5.99	35.7	11.6	4.00
PD 2137	556 cd	4.47	38.7	11.0	4.80
Pee Dee 0113	528 d	4.92	37.3	10.4	4.20
PD 2292	528 d	4.78	36.4	10.1	4.25
	Span length (inches)		Colorimeter		Yarn
	2.5%	50%	R_d	Hunter's b value	tenacity (cN/tex)
McNair 3034	1.18	0.53	79.3	8.2	14.6
Deltapine 16	1.18	.54	78.1	8.0	14.0
McNair 3035	1.16	.54	78.5	8.5	14.8
Vail 7	1.16	.53	78.2	8.2	13.1
Acala 1517-70	1.17	.55	76.6	9.1	16.8
Coker 420-511	1.22	.55	76.4	8.3	15.7
Coker 310	1.21	.54	76.8	8.1	14.6
Bayou 73	1.17	.54	77.8	8.2	15.3
La. 15177S	1.21	.56	76.4	9.4	15.2
Mo. 69-495	1.19	.58	78.0	8.3	14.7
Coker 420-6912	1.22	.56	77.0	8.3	15.7
Mo. 63-277K	1.24	.57	77.3	9.6	15.7
Stoneville 537	1.15	.54	77.4	8.0	14.2
Stoneville 1114 ...	1.17	.55	77.5	8.2	15.8
PD 2173	1.20	.56	76.9	9.3	16.2
Mo. 63-277 BR-2 ...	1.20	.56	77.8	9.1	16.4
Mo. 63-277 BR-1 ...	1.26	.60	77.0	9.6	15.8
PD 2137	1.18	.56	76.0	8.5	15.6
Pee Dee 0113	1.17	.54	78.5	8.2	15.7
PD 2292	1.17	.54	77.9	8.2	15.7

Table 64.--High-quality test: Yield, boll, and spinning data for Rocky Mount, N.C.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
McNair 3035	771 a	6.64	40.5	11.0	5.05
Mo. 69-495	760 a	6.09	40.7	10.9	4.90
Mo. 63-277 BR-1 ...	723 a	6.56	40.9	11.5	4.60
McNair 3034	653 ab	7.47	41.1	12.2	5.00
Mo. 63-277K	649 ab	7.25	40.4	12.4	4.90
Deltapine 16	577 bc	6.95	48.3	12.0	5.10
Vail 7	561 bcd	6.44	38.6	11.6	5.25
PD 2173	560 bcd	6.27	40.3	11.7	4.75
Coker 310	536 bcd	6.61	40.2	11.5	5.10
Bayou 73	533 bcd	6.87	38.8	12.3	5.00
Stoneville 537	524 bcd	6.47	37.7	13.7	5.45
Mo. 63-277 BR-2 ...	523 bcd	7.11	40.2	11.7	5.00
Stoneville 1114 ...	523 bcd	6.76	40.0	12.7	5.30
PD 2292	511 cde	5.71	39.3	11.8	5.00
Coker 420-511	459 cdef	6.82	38.1	12.6	5.10
PD 2137	436 defg	5.19	38.8	13.6	5.30
Pee Dee 0113	432 defg	6.21	38.5	12.0	4.95
Coker 420-6912	387 efg	6.52	38.0	12.3	4.95
La. 15177S	350 fg	6.67	36.6	12.7	5.20
Acala 1517-70	310 g	6.84	37.4	13.5	4.80
	Span length (inches)		Colorimeter		Yarn
	2.5%	50%	R_d	Hunter's b value	tenacity (cN/tex)
McNair 3035	1.15	0.56	73.7	7.0	13.1
Mo. 69-495	1.17	.58	75.0	7.9	13.3
Mo. 63-277 BR-1 ...	1.17	.56	76.0	8.0	14.3
McNair 3034	1.16	.55	76.4	8.2	13.8
Mo. 63-277K	1.20	.58	73.8	8.4	13.3
Deltapine 16	1.16	.52	77.0	7.9	12.2
Vail 7	1.15	.54	74.3	7.5	12.2
PD 2173	1.23	.61	74.3	7.5	15.2
Coker 310	1.22	.57	73.3	7.9	13.5
Bayou 73	1.13	.55	74.3	7.6	14.2
Stoneville 537	1.21	.61	74.2	7.5	12.1
Mo. 63-277 BR-2 ...	1.19	.60	74.6	7.9	13.5
Stoneville 1114 ...	1.17	.60	74.0	7.6	13.9
PD 2292	1.21	.59	73.4	7.5	13.8
Coker 420-511	1.24	.62	73.9	8.0	14.0
PD 2137	1.23	.59	71.5	7.7	13.6
Pee Dee 0113	1.22	.60	73.5	7.3	14.0
Coker 420-6912	1.22	.60	74.7	7.7	13.3
La. 15177S	1.21	.59	73.0	8.3	13.8
Acala 1517-70	1.21	.62	73.0	7.9	13.8

Table 65.--High-quality test: Yield, boll, and spinning data for College Station, Tex.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
McNair 3035	757 a	6.27	37.7	10.8	5.30
Coker 420-511	728 ab	6.60	34.1	11.9	5.15
Bayou 73	723 ab	6.36	37.5	10.9	5.45
Mo. 63-277 BR-1 ...	705 abc	7.09	38.5	11.5	4.80
Deltapine 16	698 abcd	6.27	37.3	10.8	5.50
Mo. 63-277 BR-2 ...	693 abcd	6.86	37.8	11.7	5.10
Acala 1517-70	657 abcd	6.59	35.6	12.3	5.30
Coker 310	645 abcd	6.64	36.7	10.9	5.10
Mo. 69-495	643 abcd	5.88	36.7	10.9	5.35
Coker 420-6912	641 abcd	6.09	35.3	11.1	5.00
PD 2173	635 abcd	5.95	39.4	11.0	5.35
Stoneville 1114 ...	631 bcd	6.23	37.6	11.1	5.55
Mo. 63-277K	627 bcd	7.15	36.8	12.2	4.75
La. 15177S	623 bcd	6.38	37.1	11.0	5.50
Vail 7	623 bcd	6.35	36.5	11.5	5.30
Stoneville 537	603 bcde	6.28	36.2	12.2	5.55
Pee Dee 0113	587 cde	5.92	36.1	10.9	5.35
PD 2137	578 de	5.18	38.4	11.6	5.65
PD 2292	499 e	5.84	38.3	11.0	5.50
<hr/>					
Span length (inches)		Colorimeter		Yarn	
2.5%	50%	R_d	Hunter's b value	tenacity (cN/tex)	
McNair 3035	1.10	0.57	69.8	7.5	12.4
Coker 420-511	1.20	.61	71.8	7.8	13.9
Bayou 73	1.13	.58	70.6	7.2	13.0
Mo. 63-277 BR-1 ...	1.19	.57	69.8	8.1	14.0
Deltapine 16	1.13	.55	74.9	7.8	11.1
Mo. 63-277 BR-2 ...	1.10	.54	70.2	8.1	13.4
Acala 1517-70	1.15	.57	73.2	7.8	13.7
Coker 310	1.15	.56	68.8	7.6	12.8
Mo. 69-495	1.15	.58	71.1	8.8	12.3
Coker 420-6912	1.15	.58	72.5	7.6	13.8
PD 2173	1.10	.52	68.7	7.8	14.6
Stoneville 1114 ...	1.07	.53	69.2	7.7	13.6
Mo. 63-277K	1.14	.56	68.8	9.1	12.8
La. 15177S	1.14	.56	71.2	8.8	13.0
Vail 7	1.09	.52	69.8	7.8	13.5
Stoneville 537	1.06	.54	71.5	7.5	12.1
Pee Dee 0113	1.05	.53	70.7	8.3	12.7
PD 2137	1.12	.56	69.8	8.6	14.0
PD 2292	1.10	.55	69.8	8.1	13.5

Table 66.--High-quality test: Yield, boll, and spinning data for Rohwer, Ark.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Vail 7	452 a	4.79	36.7	---	4.95
Stoneville 537	425 ab	4.92	37.7	---	5.25
Coker 420-511	424 ab	4.93	36.0	---	4.70
McNair 3035	406 abc	4.59	37.5	---	5.00
Mo. 63-277K	403 abc	4.39	36.2	---	3.65
La. 15177S	400 bc	4.71	36.2	---	4.80
Deltapine 16	398 bc	4.55	37.0	---	4.90
Coker 420-6912	396 bc	4.86	37.0	---	4.45
McNair 3034	393 bcd	4.70	38.2	---	4.55
Coker 310	389 bcde	5.08	37.5	---	4.75
Mo. 69-495	387 bcde	5.26	37.7	---	4.65
Stoneville 1114 ...	383 bcde	4.61	38.2	---	4.90
Mo. 63-277 BR-2 ...	379 bcde	4.49	37.5	---	4.45
Mo. 63-277 BR-1 ...	367 cde	5.23	37.2	---	4.20
Acala 1517-70	365 cde	4.88	36.7	---	4.70
PD 2292	357 cde	4.13	37.7	---	4.65
PD 2173	342 de	4.16	38.0	---	4.55
Pee Dee 0113	338 e	4.53	37.2	---	4.35
Bayou 73	290 f	4.77	37.5	---	4.15
PD 2137	257 f	3.90	37.2	---	5.40

	Span length (inches)		Colorimeter		Yarn tenacity (cN/tex)
	2.5%	50%	R_d	Hunter's b value	
Vail 7	1.13	0.51	79.4	8.2	12.8
Stoneville 537	1.15	.59	76.1	7.6	14.1
Coker 420-511	1.20	.57	76.4	8.1	15.0
McNair 3035	1.12	.56	77.7	8.9	14.0
Mo. 63-277K	1.21	.59	76.6	8.5	14.8
La. 15177S	1.18	.57	77.0	9.4	14.8
Deltapine 16	1.15	.55	79.4	7.9	13.7
Coker 420-6912	1.21	.59	76.0	7.9	14.9
McNair 3034	1.14	.54	78.0	7.8	13.4
Coker 310	1.20	.58	76.1	8.2	14.0
Mo. 69-495	1.14	.57	77.5	8.3	14.8
Stoneville 1114 ...	1.17	.58	76.8	7.8	15.7
Mo. 63-277 BR-2 ...	1.14	.55	77.3	7.8	15.1
Mo. 63-277 BR-1 ...	1.20	.59	77.7	8.3	15.4
Acala 1517-70	1.17	.58	77.2	8.4	16.5
PD 2292	1.17	.58	76.1	8.1	15.5
PD 2173	1.19	.58	77.1	8.1	16.1
Pee Dee 0113	1.17	.57	76.3	8.1	15.8
Bayou 73	1.16	.57	77.8	7.8	15.1
PD 2137	1.18	.60	75.6	8.2	15.5

PIMA REGIONAL COTTON VARIETY TEST

Table 67.--Pima test: Yield, boll, and spinning data by cotton variety

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
P-34	928 a	3.50 cd	40.3 a	12.6 a	4.89 a
P-37	883 ab	3.55 cd	38.1 c	12.0 c	4.77 b
P-30	819 abc	3.59 bc	38.5 b	11.9 c	4.56 c
P-32	802 abcd	3.46 d	38.5 b	10.5 e	4.54 c
Pima S-5	793 bcd	3.69 ab	38.7 b	12.1 c	4.44 d
P-36	783 bcd	3.69 ab	38.1 c	12.7 a	4.60 c
P-38	767 bcd	3.71 a	37.6 d	12.4 b	4.29 e
126-5	706 cd	3.27 e	37.1 e	11.1 d	4.59 c
Pima S-4	690 d	3.78 a	37.2 e	12.1 c	4.46 d
		Span length (inches)		Colorimeter	
		2.5%	50%	R_d	Hunter's b value
P-34	1.40 e	0.72 bcd	66.1 e	11.9 a	18.4 c
P-37	1.43 bc	.71 bcde	66.5 e	11.5 bc	18.2 c
P-30	1.46 a	.73 ab	67.2 d	11.5 b	17.9 d
P-32	1.35 f	.70 e	70.1 b	11.1 d	19.0 b
Pima S-5	1.44 b	.73 ab	68.9 c	11.3 bcd	17.6 e
P-36	1.43 bcd	.75 a	70.2 b	10.6 e	19.5 a
P-38	1.46 a	.73 abc	69.7 b	11.1 cd	17.3 f
126-5	1.41 de	.71 cde	71.1 a	10.2 f	17.6 e
Pima S-4	1.42 cde	.71 de	68.6 c	11.4 bcd	17.4 ef

Table 68.--Pima test: Yield, boll, and spinning data by test location

Location	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Phoenix, AZ	1289 a	3.57 de	35.5 f	12.4 a	4.72 a
Marana (Clark), AZ .	1045 b	3.75 ab	38.0 d	11.9 b	4.57 b
Safford (Curtis), AZ	896 c	3.62 cd	39.0 b	11.5 d	4.68 a
Safford (Pace), AZ .	863 cd	3.77 a	38.6 bc	12.3 a	4.53 bc
Safford (Sta.), AZ .	849 de	3.23 g	38.7 bc	12.0 b	4.47 c
Marana (Sta.), AZ ..	814 e	3.41 f	38.4 c	11.9 bc	4.48 c
Coolidge, AZ	740 f	3.23 g	36.9 e	11.6 d	4.68 a
El Paso, TX	553 g	3.41 f	39.4 a	11.7 cd	4.71 a
Las Cruces, NM	526 g	3.51 e	38.8 b	11.9 b	4.38 d
Pecos, TX	394 h	3.56 de	39.0 b	12.0 b	4.46 c
Span length (inches)		Colorimeter		Yarn	
2.5%	50%	R_d	Hunter's b value	tenacity (cN/tex)	
Phoenix, AZ	1.43 bcd	0.72 bc	66.8 f	11.3 a	18.1 bc
Marana (Clark), AZ .	1.42 cde	.71 bc	68.2 de	11.2 ab	18.2 bc
Safford (Curtis), AZ	1.41 de	.72 bc	70.2 a	11.3 a	18.1 bc
Safford (Pace), AZ .	1.44 abc	.73 ab	68.4 d	11.4 a	18.1 bc
Safford (Sta.), AZ .	1.42 de	.71 bc	68.6 cd	11.5 a	18.0 c
Marana (Sta.), AZ ..	1.41 de	.70 c	68.5 d	11.4 a	18.3 b
Coolidge, AZ	1.41 e	.71 bc	67.8 e	11.3 a	18.9 a
El Paso, TX	1.41 e	.72 bc	69.3 b	11.0 b	17.5 d
Las Cruces, NM	1.44 ab	.74 a	70.1 a	10.4 c	17.5 d
Pecos, TX	1.45 a	..75 a	69.3 bc	10.9 b	18.0 c

Table 69.--Pima test: Combined yield, boll, and spinning data for Phoenix, Marana (Experimental farm and Clark farm), and Coolidge, Ariz., by cotton variety

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
P-34	1127 a	3.47	39.4	12.5	4.86
P-37	1073 ab	3.50	36.9	12.0	4.78
Pima S-5	1011 abc	3.71	37.9	12.1	4.51
P-30	999 abcd	3.58	37.4	12.0	4.60
P-32	983 abcde	3.37	37.6	10.4	4.58
P-36	976 bcde	3.61	37.3	12.6	4.67
Pima S-4	873 cde	3.81	36.2	12.2	4.51
126-5	861 de	3.27	35.9	11.2	4.68
P-38	845 e	3.70	36.4	12.6	4.36
		Span length (inches)		Colorimeter	
		2.5%	50%	R_d	Hunter's <i>b</i> value
P-34	1.39	0.71	64.8	12.0	18.8
P-37	1.43	.71	65.4	11.7	18.5
Pima S-5	1.42	.71	68.4	11.4	17.9
P-30	1.48	.73	65.8	11.7	18.2
P-32	1.36	.70	69.2	11.4	19.3
P-36	1.41	.73	69.7	10.7	19.6
Pima S-4	1.41	.70	67.8	11.5	17.5
126-5	1.40	.71	70.4	10.1	18.1
P-38	1.34	.71	68.9	11.3	17.7

Table 70.--Pima test: Combined yield, boll, and spinning data for Safford (Station, Curtis, and Pace farms), Ariz.; El Paso and Pecos, Tex.; and Las Cruces, N. Mex.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
P-34	796 a	3.53	41.0	12.7	4.91
P-37	756 ab	3.58	38.8	11.9	4.76
P-38	715 abc	3.72	38.5	12.3	4.24
P-30	699 abc	3.60	39.2	11.9	4.54
P-32	681 abcd	3.51	39.2	10.5	4.51
P-36	655 bcd	3.75	38.6	12.8	4.55
Pima S-5	648 bcd	3.68	39.2	12.1	4.39
126-5	602 cd	3.28	37.9	11.0	4.53
Pima S-4	569 d	3.76	37.8	12.0	4.43
Span length (inches)		Colorimeter		Yarn	
2.5%	50%	R_d	Hunter's <i>b</i> value	tenacity (cN/tex)	
P-34	1.40	0.73	67.0	11.9	18.1
P-37	1.43	.72	67.3	11.3	18.0
P-38	1.47	.74	70.3	11.0	17.0
P-30	1.45	.73	68.2	11.4	17.7
P-32	1.35	.70	70.6	10.9	18.8
P-36	1.43	.76	70.6	10.4	19.5
Pima S-5	1.45	.74	69.3	11.2	17.4
126-5	1.42	.71	71.5	10.2	17.2
Pima S-4	1.42	.71	69.2	11.2	17.3

Table 71.--Pima test: Yield, boll, and spinning data for Phoenix, Ariz.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
P-34	1498 a	3.39	37.9	12.9	4.80
P-37	1407 ab	3.43	35.4	12.2	4.85
P-30	1365 ab	3.64	34.8	12.9	4.60
Pima S-5	1363 ab	3.90	35.8	12.9	4.70
P-36	1361 ab	3.58	36.0	13.0	4.80
P-32	1317 b	3.34	36.0	10.8	4.70
Pima S-4	1174 c	3.84	34.6	12.8	4.70
126-5	1135 c	3.35	34.2	11.8	4.85
P-38	979 d	3.68	34.6	13.1	4.55
		Span length (inches)		Colorimeter	
		2.5%	50%	R_d	Hunter's b value
P-34	1.40	0.71	64.9	12.1	18.8
P-37	1.47	.76	64.2	11.7	18.0
P-30	1.53	.75	64.4	11.6	18.1
Pima S-5	1.41	.73	67.0	11.5	17.4
P-36	1.46	.74	69.5	10.9	19.6
P-32	1.40	.73	68.0	11.4	18.9
Pima S-4	1.39	.69	66.7	11.3	17.4
126-5	1.39	.72	69.4	10.2	17.8
P-38	1.43	.69	66.8	11.2	17.5

Table 72.--Pima test: Yield, boll, and spinning data for Marana (Clark farm), Ariz.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
P-34	1161 a	3.65	40.1	12.5	5.00
P-37	1159 a	3.71	38.0	11.8	4.70
Pima S-5	1139 ab	3.80	38.9	12.1	4.45
P-32	1057 bc	3.52	38.5	10.1	4.45
P-30	1054 bc	3.84	38.0	11.9	4.60
P-36	998 c	3.82	38.0	12.6	4.60
Pima S-4	972 cd	4.08	36.9	12.4	4.50
126-5	970 cd	3.41	37.2	11.1	4.55
P-38	890 d	3.99	36.7	13.3	4.35
		Span length (inches)		Colorimeter	
		2.5%	50%	R_d	Hunter's <i>b</i> value
P-34	1.42	0.73	65.5	12.0	18.3
P-37	1.45	.69	65.2	11.8	18.3
Pima S-5	1.43	.72	69.0	11.6	17.9
P-32	1.32	.68	69.4	11.4	19.5
P-30	1.47	.73	66.2	11.9	17.9
P-36	1.38	.72	69.5	10.3	19.6
Pima S-4	1.43	.71	68.4	11.4	17.7
126-5	1.41	.71	71.1	9.5	17.8
P-38	1.47	.74	69.4	11.3	17.2

Table 73.--Pima test: Yield, boll, and spinning data for Safford (Curtis farm), Ariz.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
P-34	1032 a	3.61	41.2	12.4	5.00
Pima S-5	934 ab	3.69	39.8	11.4	4.70
P-30	932 ab	3.69	39.2	11.5	4.65
P-32	922 ab	3.54	39.5	9.9	4.65
P-38	914 ab	3.70	37.8	11.9	4.45
P-37	892 bc	3.62	38.6	11.6	4.85
P-36	885 bc	3.74	39.2	12.3	4.65
Pima S-4	779 c	3.87	38.3	11.8	4.50
126-5	772 c	3.17	37.5	10.7	4.70
		Span length (inches)		Colorimeter	
		2.5%	50%	R_d	Hunter's b value
P-34	1.39	0.72	68.5	11.8	18.9
Pima S-5	1.44	.73	70.6	11.4	17.2
P-30	1.46	.72	69.2	11.6	18.2
P-32	1.34	.69	71.0	11.2	18.5
P-38	1.47	.73	71.0	11.0	17.4
P-37	1.41	.71	67.8	11.5	18.4
P-36	1.40	.74	71.8	10.3	19.5
Pima S-4	1.43	.71	69.5	11.7	17.5
126-5	1.39	.71	72.9	11.5	18.0

Table 74.--Pima test: Yield, boll, and spinning data for Safford (Station), Ariz.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
P-37	1027 a	3.86	38.8	12.1	4.70
P-30	937 ab	3.77	38.9	12.1	4.45
P-34	927 ab	3.72	40.8	13.0	4.90
P-38	857 abc	3.75	38.5	12.2	4.10
P-36	842 abc	3.81	38.4	13.1	4.50
P-32	819 bc	3.58	38.8	10.7	4.55
Pima S-5	777 bc	3.80	38.9	12.2	4.30
Pima S-4	740 bc	4.01	37.4	12.4	4.35
126-5	716 c	3.27	37.9	10.9	4.45
		Span length (inches)		Colorimeter	
		2.5%	50%	R_d	Hunter's b value
P-37	1.46	0.72	66.3	11.9	17.9
P-30	1.45	.75	67.5	11.9	17.7
P-34	1.44	.75	65.6	12.2	18.2
P-38	1.43	.72	70.0	11.3	17.4
P-36	1.41	.73	70.1	11.3	19.5
P-32	1.32	.68	69.7	11.4	18.8
Pima S-5	1.43	.72	68.4	12.0	19.5
Pima S-4	1.43	.68	68.7	11.8	17.3
126-5	1.39	.68	71.4	9.9	17.5

Table 75.--Pima test: Yield, boll, and spinning data for Safford (Pace farm), Ariz.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
P-37	1027 a	3.69	39.0	12.2	4.85
P-34	943 ab	3.73	41.2	12.9	4.95
P-30	900 bc	3.80	38.9	12.0	4.50
P-32	895 bc	3.72	39.0	10.7	4.50
P-36	873 bcd	3.94	38.4	13.4	4.60
Pima S-5	807 cde	3.86	39.0	12.9	4.30
P-38	803 cde	3.85	37.7	12.8	4.10
126-5	783 de	3.42	37.6	11.3	4.60
Pima S-4	732 e	3.97	37.3	12.6	4.45
		Span length (inches)		Colorimeter	
		2.5%	50%	R_d	Hunter's b value
P-37	1.45	0.72	67.1	11.7	18.2
P-34	1.41	.73	66.0	12.3	18.1
P-30	1.47	.73	67.1	11.6	18.4
P-32	1.36	.71	69.2	11.2	19.1
P-36	1.45	.75	69.3	11.1	19.9
Pima S-5	1.47	.75	68.9	11.4	17.8
P-38	1.49	.75	68.8	11.6	17.2
126-5	1.41	.70	71.9	10.0	17.5
Pima S-4	1.43	.73	67.9	11.8	17.2

Table 76.--Pima test: Yield, boll, and spinning data for Marana (Experimental farm), Ariz.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
P-37	933 a	3.60	37.8	12.5	4.75
P-34	932 a	3.60	40.6	12.5	4.85
P-30	851 ab	3.67	38.6	11.8	4.50
P-32	831 ab	3.61	38.9	10.4	4.50
Pima S-5	809 ab	3.82	39.1	12.0	4.25
P-36	807 ab	3.73	38.4	12.4	4.50
126-5	766 bc	3.39	37.8	10.9	4.55
P-38	737 bc	3.75	37.6	12.4	4.15
Pima S-4	663 c	3.91	37.3	12.2	4.35
		Span length (inches)		Colorimeter	
		2.5%	50%	R_d	Hunter's b value
P-37	1.42	0.72	66.8	11.6	18.6
P-34	1.36	.70	64.2	12.1	18.8
P-30	1.42	.71	66.4	11.8	18.1
P-32	1.37	.68	70.2	11.4	18.8
Pima S-5	1.44	.72	69.3	11.5	17.9
P-36	1.42	.72	70.9	10.9	19.3
126-5	1.38	.69	71.4	10.1	18.3
P-38	1.46	.71	69.6	11.5	17.5
Pima S-4	1.44	.72	68.1	11.9	17.8

Table 77.--Pima test: Yield, boll, and spinning data for Coolidge, Ariz.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
P-34	916 a	3.24	39.4	12.3	4.80
P-37	794 ab	3.26	36.5	11.8	4.85
P-38	773 ab	3.39	36.8	11.7	4.40
P-36	738 b	3.31	36.8	12.7	4.80
Pima S-5	731 b	3.33	37.9	11.7	4.65
P-30	727 b	3.17	37.2	11.4	4.70
P-32	725 b	3.04	37.0	10.5	4.70
Pima S-4	682 bc	3.42	36.3	11.6	4.50
126-5	572 c	2.95	34.5	11.2	4.80
		Span length (inches)		Colorimeter	
		2.5%	50%	R_d	Hunter's b value
P-34	1.40	0.71	64.7	11.8	19.5
P-37	1.38	.70	65.3	11.6	19.0
P-38	1.43	.70	69.8	11.3	18.9
P-36	1.41	.74	69.1	10.9	19.9
Pima S-5	1.40	.70	68.3	11.2	18.4
P-30	1.49	.75	66.1	11.6	18.8
P-32	1.38	.72	69.3	11.6	20.1
Pima S-4	1.40	.69	67.9	11.6	17.3
126-5	1.42	.73	69.8	10.6	18.5

Table 78.--Pima test: Yield, boll, and spinning data for El Paso, Tex.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
P-38	682 a	3.74	39.4	12.2	4.65
P-34	646 ab	3.31	40.9	12.5	5.10
Pima S-5	581 bc	3.57	39.6	12.2	4.65
P-32	564 bcd	3.24	39.9	10.4	4.60
P-36	562 bcd	3.55	39.2	12.4	4.70
P-30	535 cd	3.32	39.8	11.6	4.65
P-37	502 cde	3.24	39.1	11.5	4.90
126-5	475 de	3.31	38.3	10.9	4.65
Pima S-4	425 e	3.47	38.7	11.4	4.55
		Span length (inches)		Colorimeter	
		2.5%	50%	R_d	Hunter's <i>b</i> value
P-38	1.44	0.73	70.4	10.9	16.1
P-34	1.35	.69	67.2	11.8	18.0
Pima S-5	1.40	.72	69.4	11.2	17.5
P-32	1.36	.71	70.8	11.0	18.1
P-36	1.47	.79	69.8	10.1	19.1
P-30	1.45	.73	68.9	10.9	17.1
P-37	1.39	.71	67.1	11.2	17.4
126-5	1.46	.71	71.7	10.5	17.3
Pima S-4	1.36	.69	69.0	11.4	17.3

Table 79.--Pima test: Yield, boll, and spinning data for Las Cruces, N. Mex.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
P-34	636 a	3.30	41.1	12.5	4.70
P-38	594 ab	3.57	38.2	12.7	4.00
P-37	587 ab	3.53	38.7	12.0	4.60
P-30	585 ab	3.53	39.3	12.1	4.50
P-32	514 bc	3.55	38.9	10.7	4.30
Pima S-5	484 cd	3.64	39.7	12.1	4.25
P-36	465 cd	3.68	38.2	12.5	4.30
126-5	444 cd	3.10	38.0	11.1	4.35
Pima S-4	423 d	3.73	37.8	11.9	4.45
		Span length (inches)		Colorimeter	
		2.5%	50%	R_d	Hunter's b value
P-34	1.41	0.75	68.3	11.7	17.5
P-38	1.49	.77	71.7	10.4	16.4
P-37	1.45	.73	67.7	10.5	17.8
P-30	1.45	.75	68.8	11.3	17.6
P-32	1.36	.72	71.8	10.3	19.1
Pima S-5	1.48	.77	70.0	10.2	16.6
P-36	1.44	.76	71.7	9.9	19.4
126-5	1.47	.73	69.8	9.3	16.5
Pima S-4	1.44	.74	71.3	9.9	17.3

Table 80.--Pima test: Yield, boll, and spinning data for Pecos, Tex.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
P-34	590 a	3.50	40.8	13.1	4.85
P-37	501 ab	3.56	39.0	12.3	4.70
P-38	438 bc	3.70	39.5	11.9	4.15
126-5	424 bcd	3.42	38.2	11.2	4.45
P-32	372 cd	3.45	39.1	10.8	4.50
Pima S-4	312 d	3.54	37.7	12.1	4.30
Pima S-5	305 d	3.55	38.5	12.0	4.15
P-36	303 d	3.79	38.6	13.0	4.60
P-30	302 d	3.52	39.3	12.0	4.50
Span length (inches)		Colorimeter		Yarn	
2.5%	50%	R_d	Hunter's <i>b</i> value	tenacity (cN/tex)	
P-34	1.44	0.76	66.4	11.7	18.0
P-37	1.45	.72	67.7	11.2	18.4
P-38	1.50	.78	69.9	11.2	17.3
126-5	1.45	.76	71.7	10.2	16.8
P-32	1.36	.70	71.4	10.3	19.3
Pima S-4	1.46	.74	69.2	11.1	17.5
Pima S-5	1.48	.78	68.6	11.3	17.9
P-36	1.46	.79	70.8	10.1	19.6
P-30	1.45	.73	68.1	11.2	17.2

COMBED-YARN TEST

Table 81.--Combed-yarn test: El Paso, Tex.

Test	Variety				
	Pima S-4	Pima S-5	P-30	P-32	P-34
Classer's designation:					
Grade	7	5	5	5	6
Staple: 32's inch	46	46	46	42	42
Yarn tenacity, cN/tex:					
11.8 tex, combed	15.7	14.7	16.2	17.4	15.0
7.4 tex, combed	13.1	12.8	13.5	14.6	12.8
Yarn appearance index ...	120	115	120	125	120
Yarn imperfections:					
11.8 tex, combed	1	3	3	1	2
7.4 tex, combed	1	2	2	1	1
Waste, percent:					
Picker and card	11.0	11.0	11.5	8.7	10.2
Comber	14.7	15.0	15.8	15.0	14.2
	P-36	P-37	P-38	126-5	
Classer's designation:					
Grade	7	6	6	7	
Staple: 32's inch	46	46	44	42	
Yarn tenacity, cN/tex:					
11.8 tex, combed	17.9	16.0	15.7	15.5	
7.4 tex, combed	15.4	13.5	13.5	13.1	
Yarn appearance index ...	120	120	120	110	
Yarn imperfections:					
11.8 tex, combed	1	1	2	2	
7.4 tex, combed	2	2	1	2	
Waste, percent:					
Picker and card	13.4	10.9	12.5	13.0	
Comber	14.7	15.5	14.4	15.7	

Table 82.--Combed-yarn test: Phoenix, Ariz.

Test	Variety				
	Pima S-4	Pima S-5	P-30	P-32	P-34
Classer's designation:					
Grade	7	8	8	6	7
Staple: 32's inch	46	46	46	46	46
Yarn tenacity, cN/tex:					
11.8 tex, combed	15.3	15.7	16.0	16.9	16.0
7.4 tex, combed	12.8	13.9	13.9	14.3	13.5
Yarn appearance index ...	120	125	115	125	120
Yarn imperfections:					
11.8 tex, combed	1	1	2	1	1
7.4 tex, combed	2	1	2	2	1
Waste, percent:					
Picker and card	11.9	11.2	13.3	11.2	11.0
Comber	14.2	13.6	15.0	12.8	12.8
	P-36	P-37	P-38	126-5	
Classer's designation:					
Grade	7	8	8	9	
Staple: 32's inch	46	46	46	46	
Yarn tenacity, cN/tex:					
11.8 tex, combed	16.9	16.5	16.0	15.5	
7.4 tex, combed	14.6	13.9	13.5	13.1	
Yarn appearance index ...	120	115	110	120	
Yarn imperfections:					
11.8 tex, combed	1	1	2	2	
7.4 tex, combed	1	2	2	2	
Waste, percent:					
Picker and card	12.7	11.6	16.2	15.9	
Comber	12.2	14.0	14.2	13.3	

Table 83.--Combed-yarn test: Safford, Ariz.

Test	Variety				
	Pima S-4	Pima S-5	P-30	P-32	P-34
Classer's designation:					
Grade	7	7	6	7	7
Staple: 32's inch	46	46	46	44	46
Yarn tenacity, cN/tex:					
11.8 tex, combed	14.3	15.0	15.7	16.2	14.8
7.4 tex, combed	12.0	12.8	12.8	13.9	12.8
Yarn appearance index ...	110	120	115	120	115
Yarn imperfections:					
11.8 tex, combed	3	2	3	2	1
7.4 tex, combed	3	2	3	1	1
Waste, percent:					
Picker and card	12.3	11.6	11.5	10.9	11.8
Comber	15.6	13.9	14.4	14.0	12.9
	P-36	P-37	P-38	126-5	
Classer's designation:					
Grade	7	7	7	8	
Staple: 32's inch	46	46	46	46	
Yarn tenacity, cN/tex:					
11.8 tex, combed	16.5	15.3	15.3	14.6	
7.4 tex, combed	13.9	12.8	13.1	12.4	
Yarn appearance index ...	120	110	110	115	
Yarn imperfections:					
11.8 tex, combed	2	3	2	3	
7.4 tex, combed	1	2	3	3	
Waste, percent:					
Picker and card	13.5	11.7	12.9	15.6	
Comber	10.4	13.8	14.4	16.4	

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